

CITY OF CARLISLE.

REPORT

ON THE

Sanitary Condition of the City of Carlisle

FOR THE YEAR 1924,

BY

JOSEPH BEARD,

F.R.S. (Edin.), F.R.C.S. (Edin.), L.R.C.P. (Lond.), D.P.H. (Cantab.), etc. (Of Gray's Inn, Barrister-at-Law).

Medical Officer of Health, School Medical Officer, Chief Tuberculosis Officer, &c.

CARLIST I:





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CARLISLE:

CHAS. THURNAM & SONS, PRINTERS, ENGLISH STREET.

PUBLIC HEALTH STAFF

including all who are employed in work connected with the public health, whether under the Health, Maternity and Child Welfare, or the Education Committees:—

Medical Officer of Health, School Medical Officer, Chief Tuberculosis Officer, &c., &c. Joseph Beard, F.R.C.S., D.P.H., &c., &c.

Assistant Medical Officer of Health, Tuberculosis Officer, and Assistant School Medical Officer ALLAN SEMPLE, M.B., Ch. B., D.P.H.

Assistant School Medical Officer, and Assistant Medical Officer (M. & C. W.) Miss E. E. Bourne, M.B., Ch.M., D.P.H.

Assistant Medical Officer (V.D.) (part-time)

ALEX. C. B. Mc.Murtrie, M.D., F.R.C.S., D.P.H.

Dental Surgeon (part-time)

WILLIAM TAYLOR, L.D.S.

Veterinary Inspector (part-time)

R. CRAIG ROBINSON, M.R.C.V.S.

Chief Sanitary Inspector, and Inspector under Sale of Food and Drugs Acts and Shops Acts

* C. W. HILL

Assistant Sanitary Inspectors

‡†* W. Hanson * E. S. Broadhead

Health Visitors

Misses H. M. Hill, J. G. Smith, C. Stordy

Nurse in charge of School Clinic and Tuberculosis Dispensary

Miss M. E. GLOYNE

School Nurses

houses

Misses J. S. Guthrie, J. H. Braden, M. Wood

Matron of Maternity Hospital Clerks

Miss A. H. HARRIS

0101110

G. E. Barrow, R. F. Thoburn, Misses L. Hind, and M. Purdam

Disinfector
Superintendent of Public Slaughter-

H. FORTER
J. Dodds

Public Analysts (part-time)

Messrs. Hellon & Mann, White-HAVEN

Bacteriologists (part-time)

PUBLIC HEALTH LABORATORY, MAN-CHESTER

CLINICAL RESEARCH ASSOCIATION, LONDON

^{*} Sanitary Inspectors' Certificate, R.S.I.

[†]Sanitary Inspectors' Certificate, S.I.A.

[#] Meat Inspectors' Certificate, R.S.I.

The following Acts, Bye-laws, and Regulations are in force in the district, and were adopted on the dates mentioned:—

mentioned:—	
Bye-laws with respect to New Streets and Buildings under the Public Health Act, 1875	13th Oct., 1885
Regulations under the Contagious Diseases (Animals) Act, 1886, and the Dairies, Cowsheds, and Milk-	
shops Order of 1885	16th July, 1889
The Infectious Diseases (Prevention) Act, 1890	10th March, 1891
The Public Health Acts (Amend-	
ment) Act, 1890	10th March, 1891
Bye-laws for regulating the Public	
Pleasure and Recreation Grounds,	
made in pursuance of the Public	
Health Act, 1875	14th Feb., 1893
Bye-laws with respect to Common Lodging-houses, made in pursuance	
of Section 80 of the Public Health Act, 1875	15th Aug., 1893
Bye-laws relating to the conveyance	
of carcases of dead animals through	
the streets	8th Jan., 1895
Byc-laws for regulating the Carlisle	
Public Slaughter-houses under the Public Health Act, 1875	12th May, 1896
Bye-laws made for regulating the	
carrying on of offensive trades, in	
pursuance of Section 113 of the	0.1 35
Public Health Act, 1875	
Baths and Wash-houses Acts	9th July, 1901
Measles Regulations, 1923	1st Jan., 1924



To the Chairman and Members of the Health Committee.

Ladies and Gentlemen,

I have the honour to submit my Seventeenth Annual Report on the Health of the City for the year 1924.

I have kept the report as far as practicable within the limit of the instructions contained in a circular of the Ministry of Health, giving, of course, consideration to the recording of any such particulars as may be required for future reference.

I am,

Ladies and Gentlemen,

Your obedient Servant,

JOSEPH BEARD,
Medical Officer of Health.

Public Health Department,
19 Fisher Street,

Carlisle,

April, 1925.

GENERAL STATISTICS.

Area (acres)	• • •			• • •	4,488
Population (1924) E					4,910
Number of Inhabite	d House	s (Cens	us, 1921)	1	1,316
Number of Families	(Census	, 1921)		1	1,742
Rateable Value		• • •		£31	9,531
Sum represented by				£	
	Ĭ				
EXTRACTS FROM	M VITA	L STA	TISTICS	0F 1	HE
	YE	AR.			
Births-	Total.	Μ.	$\mathbf{F}.$		
Legitimate	1063	521	542		
Illegitimate	53	26	27		
			Bir	th-rate	20.3
Deaths	763	365	398		
			Dea	th-rate	13.8
Number of women d	ying in,	or in co	nsequenc	e	
of, childbirth—					
From Sepsi	S	* * *			Nil
From other	causes			• • •	3
Deaths of Infants v 1,000 births—	ınder one	e year (of age pe	r	
Legitimate	* * *		95.9		
Illegitimate	·		75.4		
			Tot	al	95.0
Deaths from Measle	s (all age	es)			3
,, Whoop	ing Coug	gh (all	ages)		8
,, Diarrh	œa (unde	er 2 yea	ars of age	e)	8

POPULATION.

The estimate of the population at mid-year, 1924, supplied to me by the Registrar-General, is 54,910, and this figure has been used in making the calculations for this report.

BIRTHS.

The number of births registered during the year was 1,116, a decrease of 65 on the figure for the previous year. The birth-rate is 20.3 per 1,000 of the population at all ages, a decrease of 1.5 on the previous year's figure.

The birth-rate for the whole of England and Wales during 1924 was 18.8 per 1,000. The rate for the 105 great towns, to which classification Carlisle belongs, was 19.4 per 1,000, and for the 157 smaller towns of England and Wales 18.9 per 1,000.

	Numbe	r of Births Re	gistered.	- Per 1,000 of
Year.	Males.	Females.	Total.	the population
1920	759	666	${1425}$	24.7
1921	679	631	1310	24.6
1922	641	626	1267	23.6
1923	589	592	1181	21.8
1924	548	568	1116	20.3

Table showing details of the Births in the several Wards, 1924.

Quarter Ended.	STANWIX AND ETTERBY.	RICKERGATE.	AGLIONBY.	GREYSTONE.	ST. NICHOLAS.	Сивноск.	DENTON ĬſOLME.	ST. CUTHBERT'S.	CALDEWGATE.	NEWTOWN AND BELLE VUE.	Totals fon City.
March 31	12	32	15	24	22	29	31	26	47	21	259
June 30	17	33	25	35	32	33	33	35	38	24	305
September 30	13	33	14	28	43	20	33	39	46	21	290
December 31	16	26	26	22	38	25	30	23	39	17	262
Totals	58	124	80	109	135	107	127	123	170	83	1116

ILLEGITIMATE BIRTHS.

The number of illegitimate births registered was 53, or 47.4 per 1,000 of the total births. This figure is the same as that for 1923.

In 10 instances, or 18.8 per cent. of the total illegitimate births for the year, the mother was not a resident of the City.

The distribution of the illegimate births among the several wards was as follows:—

	Stanwix and Etterby	Rickergate	Aglionby	Greystone	St. Nicholus	Currock	Denton Holme	S. Cuthbert's	Caldewgate	Newonn & Belle Vue	Totals for City
Males	1	2	5	3	4	1	3	1	4	2	26
Females	3	2	3	2	4	3	1	1	6	2	27
Totals	4	4	8	5	8	4	4	2	10	4	53

DEATHS.

The total number of deaths registered was 849, as compared with 797 in 1923. 17 deaths occurred of persons belonging to the City in institutions and other places away from Carlisle, while the deaths of 103 persons not belonging to the City occurred in public institutions and other places within the City. Excluding the latter figure, and adding the deaths of Carlisle residents which occurred in other districts, a nett figure of 763 remains, which is equal to a nett death-rate of 13.8 per 1,000 of the estimated population at all ages, against 13.5 per 1,000 in 1923.

The death-rate for the whole of England and Wales during 1924 was 12.2 per 1,000. The rate for the 105 great towns, to which classification Carlisle belongs, was 12.3 per 1,000, and for the 157 smaller towns of England and Wales, 11.2 per 1,000.

Table showing details of the corrected Deaths in the Wards, 1924.

Quarter Ended	Stanwix and Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holme	S. Cuthbert's	Caldewgate	Newtown & Belle Vue	Totals for City
March 31	18	18	31	21	16	16	16	34	28	16	214
June 30	11	18	25	21	31	24	29	21	24	11	215
September 30	10	18	20	7	8	13	13	20	22	8	139
December 31	13	24	22	26	12	15	20	25	21	17	195
Totals	52	78	98	75	67	68	78	100	95	52	763

Table showing the number of Deaths at all Ages and at several age periods, 1924.

	All Ages.	٦ .	1 and under 5	under	15 and under 25	25 and under 65	65 and up- wards.
No. of Deaths at all ages and at several age periods	763	106	44	27	33	245	308

The following Table shows the diseases causing the largest number of Deaths during 1924, and a comparison with those of 1923, &c.:—

DISEASE.	1923.	1924.	Increase or Decrease	Average No. of Deaths for past 10 yrs.
Pulmonary Tuberculosis & Phthisis	40	49	+ 9	53
Other forms of Tuberculosis	14	20	+ 6	20
Pneumonia	52	58	+ 6	56
Other Diseases of Respiratory System	37	57	+ 20	59
Measles	45	3	42	12
Influenza	7	23	+16	35
Whooping Cough	8	8	•••	10
Diphtheria, Membranous Croup	10	9	_ 1	9
Disease of Heart and Blood Vessels	151	159	+ 8	161
Rheumatic Fever, Chronic Rheumatism, Rheumatoid Arthritis	9	12	+ 3	7
Cancer and Malignant Disease	78	72	6	65
Diseases of Digestive System other than Diarrhœa and Enteritis	0.4	33	+ 9	26
Diseases of Urinary System	25	21	4	30
Diseases of Nervous System	65	86	+ 21	48
Prematurity and Injury at Birth, &c.	59	43	16	40
Accidents due to Negligence	15	19	+ 4	20
Diarrhœa and Enteritis	15	16	+ 1	24

⁺ Shows an increase in the number of deaths.

⁻ Shows a decrease in the number of deaths.

The following Table sets out the Cause and the Ages at Death of 763 persons belonging to the City:—

Caure of Death Caure Caure of Death Caure of Residents Caure of Res											
Caure of Death Caure Cau											
CAURE OF DEATH.			NETT	DEATE	18 AT '	THE SU	JBJOIN	ED AG	ES OF		
CAUSE OF DEATH. All Ages Vacar Vacar			"REST	DENTS	" WHE	THER (OCCURI	RING W	THIN		
All Ages All Ages All Ages All Ages All Ages A				OR 1	VITHOU	JT THE	Disti	RICT.			
All Ages. 1	CAUSE OF DEATH.									_	
Ages. year. 2. 5. 15. 25. 45. 65. wards District.		6.33	Under	land	2 and	5 and	15 and	25 and	45 and	65 and	Institutions
Ages. year. 2. 5. 15. 25. 45. 65. wards DISTRICT.											
All Causes Certified 19		Ages.	year.	2.	5.	15.	25.	45.	65.	wards	DISTRICT.
All Causes Certified 19					-						
Enteric Fever		2	3	4	อ	6	7	8	9	10	11
Enteric Fever	Lu C / Certified	744	103	23	20	27	33	70	172	296	277
Smallpox	All Causes 1 vv	19	3	1					3	12	4
Smallpox	Enteric Fever			**					-	i	
Measles	G11						1				
Scarlet Fever	No. of the							,			
Whooping Cough	Constat Dance	1	ļ		-						
Diphtheria and Croup	7377	_									
Influenza	TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								l .	1	
Dysentery Crysipelas Crys	7				_		2				
Erysipelas	There is a second of the secon			1				_	_		
Phthisis (Pulmonary Tuberculosis)					1						
Tuberculous Meningitis							_	16			
Other Tuberculous Diseases 12	(III) 1 3 3 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			_	_						
Cancer, Malignant Disease 72	Other Tuberculous Diseases	1				_	_				
Rheumatic Fever	0 9 35 31 1 331				_	ł.	_	_	_		
Meningitis	73.1			}							
Organic Heart Disease 111 1 2 5 41 62 21 Bronchitis .52 9 1 2 12 28 4 Pneumonia (all forms)							_	2		_	
Bronchitis	Ourself Was t Dissess			_	1 1						
Pneumonia (all forms)		=0				_	_				
Other Diseases of Respiratory Organs 5 1 3 1 1 Diarrhee and Enteritis 16 6 2 1 2 2 3 12 Appendicitis and Typhlltis 10 1 2 1 1 4 1 15 Cirrhosis of Liver 2 1 1 1 4 1 15 Alcoholism 1	D . 4 . 2 . 2										
Diarrhea and Enteritis	Other Diseases of Respiratory Organs	5		1	-	_	_				
Appendicitis and Typhlitis 10 1 2 1 1 4 1 15 Cirrhosis of Liver								9			
Cirrhosis of Liver		1 72		·							
Alcoholism					_		-	_	-		
Nephritis and Bright's Disease	1				1		(_	-	
Puerperal Fever											
Other Accidents and Diseases of Pregnancy and Parturition 3 3 2 Congenital Debility & Malformation, including Premature Birth 43 41 2 3 1 7 Violent Deaths, excluding Suicide 19 1 1 1 1 2 3 11 17 Suicide 3 3 3 3 3 3 3 1 17 Suicide 3 3 3 3 3 3 3 3 1 17 Suicide 3 3 3 4 1 7 4 16 45 125 105 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>									_		
nancy and Parturition 3 3 2		***	1				***	***			î .
Congenital Debility & Malformation, including Premature Birth	1 70 1 111	3						3			2
including Premature Birth											
Violent Deaths, excluding Suicide 19	de ale at the first that the same of the s	43	41	2	,						7
Suicide 3 1									3		
Other Defined Diseases 215 13 4 1 7 4 16 45 125 105 Diseases ill-defined or unknown 1 1 <td>Cuicida</td> <td></td> <td>2</td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Cuicida		2		_	_					
Diseases ill-deflued or unknown 1	Other Type 1 This was a							16	_		105
Totals 763 106 24 20 27 33 70 175 308 281 Sub- Cerebro-spinal Meuiugitis	To:	1		1	_						2
Sub- Cerebro-spinal Meuiugitis											
Sub- Cerebro-spinal Meuiugitis </td <td>Totals</td> <td>763</td> <td>106</td> <td>24</td> <td>20</td> <td>27</td> <td>33</td> <td>70</td> <td>175</td> <td>308</td> <td>281</td>	Totals	763	106	24	20	27	33	70	175	308	281
Entries Poliomyelitis		1	1			1	1	1		1	
Entries Poliomyelitis	Sub- Cerebro-spinal Meningitis			1				i			1
included Typhus Fever	The state of the s	1	1	1		1		1		1	•••
in above Lobar Pneumonia 13 2 2 1 1 2 2 3 4	included Markon Ferra		1				1			ì	
Grance Decomposite and defend	in above Ti. D.										
									_	_	
		^ *		1 7	1						4

The following Table shows the Vital Statistics for the whole City during 1924 and previous years:—

		_	B	IRTHS		TOTAL REGIS	DEATHS TERED	TRANSI DEA	TERABLE	NETT I	DEATHS I	BELON	GING
		imatec	pa	Ne	ett.	Dist	RICT.			Under of	1 Year age	AT AG	ALL ES.
Y	BAR.	Population estimated to Middle of each Year	Uncorrected Number.	Number.	Rate.	Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Number.	Rate per 1,000 Nett Births.	Number.	Rate.
	1	2	3	4	5	6	7	8	9	10	11	12	13
+1	915 {	52,625 50,036	1192	1192	22.6	994	18.8	72	31	172	144.3	953	18.1
+1	916 {	49,721 54,097	1103	1103	20.3	850	17.0	93	24	112	101.3	781	15.7
+1:	917 {	59,151 53,064	1117	1120	18.9	826	15.5	101	46	119	106.5	771	14.5
†1	918 }	60,188 53,717	1033	1037	17.2	921	17.1	120	49	131	126.8	850	15.8
+1:	919 {	57,500 55,198	1066	1078	18.7	778	14.1	112	54	115	107.9	720	13.6
+19	920 }	57,697 57,397	1425	1417	24.7	785	13.7	117	37	114	80.0	705	12.3
+15	921	53,200	1310	1298	24.6	818	15.3	85	21	138	105.3	754	14.1
+19	922	53,490	1267	1267	23.6	864	16.1	101	21	103	81.2	784	14.6
+19	923	54,010	1181	1171	21.8	797	14.7	91	26	98	82.9	732	13.5
+19	924	54,910	1116	1123	20.3	849	15.4	103	17	106	94.9	763	13.8

† Registrar-General's estimates of population.

The following Public and other Institutions are within the City:—

The Union Workhouse and its Infirmary.
The Cumberland Infirmary.
Carlisle Non-Provident Dispensary.
The Crozier Lodge Isolation Hospital.
Strathelyde House (Home for Incurables).
St. Joseph's Home (aged and infirm persons).
Chadwick Memorial Industrial School.
Corporation Dispensary and School Clinic.
Corporation Maternity Hospital and Clinics.

Birth-rate, Death-rate, and Infantile Mortality in Carlisle since 1891.

Year.	No. of	Birth-	No. of	Gross Death-	Infantile Mor-	Avera	age Five	Years.
	Births.	rate.	Deaths.	rate.	tality.	Birth- rate.	Death- rate.	Infantile Mortality.
1891	1207	30.8	789	20.1	137			
1892	1213	30.2	805	20.2	123		}	1
1893	1389	34.5	868	21.6	178	31.8	20.1	142.6
1894	1315	32.0	780	19.2	133			
1895	1311	31.4	794	19.4	142			
1896	1246	29.6	753	18.2	137			
1897	1324	30.8	811	19.4	134			
1898	1311	30.0	935	22.2	183	29.9	19.5	146.6
1899	1300	29.4	818	19.2	145			
1900	1354	30.1	807	18.8	134			
1901	1246	27.3	810	17.8	129			
1902	1245	27.0	856	18:5	117		3 = 0	
1903	1322	28.4	813 933	17:4	118	26.7	17:9	131.0
1904	1278	26·7 24·3		19.7	$\begin{bmatrix} 152 \\ 139 \end{bmatrix}$			
1905	1168	25.3	783 811	16·3 16·7				
1906	1227	23.8	848	17.1	$132 \\ 143$			1
1907 1908	1178 1223	24.4	713	14.2	129	23.6	15.1	107.5
1909	1149	22.6	735	14.5	123.6	23.0	19.1	127.5
1909	1145	22.2	683	13.2	110.0			
1911	1109	23.8	776	16.7	145.0			
1912	1142	24.6	813	17:5	102.4			
1913	1164	22.1	821	15.6	127.1	23.2	17:1	128.2
1914	1209	23.0	848	16.1	122.4	20 2	*, *	1202
1915	1192	22.6	1027	19:5	144.3			
1916	1103	20.3	850	17:0	101.5			
1917	1117	18.8	826	15.5	106.5			
1918	1033	17:1	921	17:1	126.8	19.9	15.5	104.5
1919	1066	18.5	778	14.1	107:9			
1920	1425	24.7	785	13.7	80			
1921	1310	24.6	818	15.3	105.3			
1922	1267	23.6	864	16.1	81.2			
1923	1181	21.8	797	14.7	82.9			
1924	1116	20.3	849	15.4	95.0	23.0	15.0	88.8
		1			1			

The following figures relate to the deaths of persons not normally resident in the district which occurred withinthe City:—

end in one disorice w	men occu	ited with	inuite Of	. U y . —
Cumberland Infirms	ary			72
Private Nursing Ho	omes	* * *		21
Private Houses				2
Fusehill Hospital				4
Crozier Lodge			• • •	2
Dead body found or	n railway	one mile	north	
of Citadel Stati				1
Died in ambulance v		ng brough	t into	
the Cumberland				1
		, , , , ,		
				103

INQUESTS.

During the year the City Coroner held 40 inquests. Of this number, 32 related to deaths of persons who resided within the City, and 8 to persons who resided in other districts, but who died within the City. 6 related to children under five years of age, 3 of whom were under one year.

MORTUARY.

13 bodies were removed to the Public Mortuary, a post-mortem examination being made in each instance.

UNCERTIFIED DEATHS.

19 deaths were registered of persons belonging to the City in which no certificate was given by a medical man, and in which no inquest was held.

During 1923, 15 such deaths were registered.

CANCER.

The following figures include all deaths from causes coming within the general term cancer. The number of deaths registered during 1924 was 72, against 78 in 1923.

Calculated upon the population at all ages a mortality rate of 1.3 per 1,000 is obtained.

TABLE OF DEATHS FROM CANCER, 1915 to 1924.

		Age.		Numbers.									
				1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
1	to	5 years									• • •	• • •	
5	to	15 years					1		1				
15	to	25 years		1	1	1	1			1	1		1
25	to	35 years			2	1	1	2	1	2			1
35	to	45 years		3	6	7	5		5	2	4	2	5
45	to	55 years		7	17	10	13	9	15	5	12	13	10
55	to	65 years		21	21	32	21	19	12	20	22	21	20
65	to	75 years		20	18	14	17	15	17	19	15	26	25
75	de	upwards		6	9	8	7	4	11	4	14	16	10
	T	otals	• • •	58	74	73	66	49	62	53	68	78	72

RAINFALL.

Observations taken at the Carlisle Cemetery by J. T. Charlton, Esq.

				_	_			_								
A verage for	10 years 1914-1923.	in.	3.01	2.42	2.07	1.76	2.03	1.74	3.08	3.80	2.61	2.85	2.52	3.17	31.05	203
1924.	Rainfall, days on which Rain fell.		17	3	1	12	24	17	24	20	22	18	12	24	210	:
	Rainfall.	in.	2.77	0.95	1.73	1.81	3.73	1.90	4.63	3.13	00 00 00	4.13	1.97	5.03	35.11	:
	1923	in.	1.74	4.08	0.84	2.55	1.98	0.00	2.22	7.45	3.01	5.61	4.06	2.42	36.53	231
	1922	in.	2.25	287	1.31	1.89	1.79	2.98	4.54	2.53	2.92	1.20	0.84	3.43	28.55	209
	1921	in.	5.01	0.16	3.71	98.0	1.28	0.65	2.44	5.33	2.15	2.56	1.68	3.94	29.83	205
	1920	in.	4.17	2.61	3.11	2.17	3.48	2.11	4.56	2.50	1.89	1.00	2.02	2.79	32.11	211
	1919	i.i.	2.88	1.05	2.35	1.49	1.10	5.66	0.87	2.96	1.81	2.36	2.36	3.32	25.21	191
	1918	in.	3.13	2.86	99.0	0.20	1.88	0.87	3.73	3.21	7.36	4.00	2.01	3.44	33.65	190
	1917	ii.	1.53	1:13	1.98	2.45	1.91	2.01	1.31	19.9	2.61	4.33	2.83	1.40	29.13	176
	1916	in.	3.55	3.31	2:14	2.44	2.98	3.30	4.61	2.39	2.06	5.10	4.34	2.75	38.97	228
	1915	in.	3.17	3.20	1.88	1.91	2.04		3.80	3.27	1.03	1.25	0.58	4.64	28.28	183
	1914	in.	2.64	2.29	2.67	1.36	1.73	1.06	3.04	2.73	1.28	1:11	4.52		28.31	201
	Months.		January	February	March	April	May	June	July	August	September	October	November	December	Totals	Total number of days on which Rain fell

WATER SUPPLY.

Bacteriological Results of Quarterly Samples taken from a Domestic Tap.

Examinations made at the Public Health Laboratory, Manchester.

(QUANTITATIVE ANALYSIS				1924.				
A	Aerobic micro-organ- isms growing in 3 days in nutrient			colonies i ne of water		No. of kinds clearly recognisable.			
	gelatine at 20° C. to 21° C.	MAR.	JUNE.	SEPT.	DEC.	MAR.	JUNE.	SEPT.	DEC.
L	Yon-Liquefying Bacteria Jiquefying Bacter a Other Micro- Organisms Anærobic Micro-Organisms	70 12 84 2	48 15 0 0 	199 74 273 0	$\begin{pmatrix} 82\\33\\0 \end{pmatrix}$ 115	$\left\{\begin{array}{c}3\\4\end{array}\right\}$ 7	3 5 8 5	4 5 5 	3 8 5 8
-(;	QUALITATIVE ANALYSIS.	MARCH.		JUNE.	1924.	SEPT		DEC	s.,
i	ated with sewage cor frecal pollution for	3. Coli ommunis ound in 10 C.C. but no n 10 C.C.	00 fo	3. Coli communis cound in 1 c.C. but n u 10 C.C.	00 fe	3. Coli commun cound in 5.C. but n 10 C.	100 not	B. Co comm not fo in 100	unis und
	B. Bacteria associated with disease N	Not found.		Not foun	d	Not fo	und	Not fo	ound

Bacteriologically all the samples were satisfactory.

Results of Chemical Analyses of Quarterly Samples of Water taken from a Domestic Tap.

Examinations made by Messrs. Hellon and Mann, Whitehaven.

Results shown in grains per gallon.		192	4	
CHEMICAL.	MARCH.	JUNE.	SEPT.	DEC.
Total Solid Matter in solution dried at 212° Fahr	10.080	10.360	9.520	8.960
Chlorine existing as				
Chlorides	.560	.490	.420	.455
Ammonia :	traces	traces	traces	traces
Albuminoid Ammonia	.001	100.	.002	.002
Nitrogen existing as Nitrates Oxygen absorbed in 15	traces	traces	traces	traces
minutes at 80° Fahr.	.023	.034	.127	.067
Oxygen absorbed in 4 hours at 80° Fahr Lead & other Poisonous	.039	064	.201	.119
Metals	None	None	None	None
Hardness before boiling	710		7°	7°
Hardness after boiling	71° 11°	71° 11°	l° l	110
Appearance in two-foot	Clear;	Clear;	Clear;	Clear;
tube	yellowish-	yellowish-	brownish-	yellowish-
	green	green	yellow	green
Smell when heated to	9.00	8.44		8
100° Fahr	None	None	None	None
Microscopical Examina-				
tion	Slight	Slight	Slight	Slight
	deposit of	deposit of	deposit of	deposit of
	Mineral	Vegetable	Mineral	Mineral
	particles and	debris	particles and	particles and
	Vegetable		Vegetable	Vegetable
	debris		debris	debris

A determination of the plumbo-solvent action of the water was made according to the method of the Local Government Board in all samples taken during the year, the results being satisfactory.

The Lacmoid re-action in all instances was Alkaline.

Total annual distribution of Water from Cumwhinton covered reservoir during the years 1915 to 1924.

Year.	Number of Gallons.	No. of Gallons per head, per day.
1915	710,974,000	34.03
1916	758,483,000	35.80
1917	801,490,000	33.78
1918	795,220,000	34.58
1919	804,040,000	34.88
1920	814,170,000	35.41
1921	771,250,000	33.54
1922	759,500,000	32.98
1923	747,320,000	32.49
1924	712,630,000	30.90

FOOD.

MILK SUPPLY.

There are 21 registered cow-keepers in the City, and there were 34 occupied cow-sheds with an average of 240 cows kept therein during the year. There were 54 purveyors of milk on the register, 28 of whom reside in the City and the remaining 26 in districts outside.

19 samples of milk, brought into the City from outside dairies, were purchased and submitted for bacteriological examination for the presence of tubercle bacilli, further details of which are shown on page 32. 44 samples of milk were also purchased and submitted to chemical analysis, of which 41 were found to comply with the standard laid down by the Regulations. 2 samples showed that the milk was below the limit in non-fatty solids, and in the remaining instance the milk was below the limit in milk fat; further particulars relating to these unsatisfactory samples are given in the table on page 75.

Public Health (Milk and Cream) Regulations. 1912 and 1917.

1.	Milk;	and Cream	not sold	as Preserv	ed Cream.
----	-------	-----------	----------	------------	-----------

(a) Number of samples examined for the presence of a preservative:—

(b) Number in which a preservative was reported to be present:—

Milk......1

Nature of preservative in each case as shown in (b) and action taken under the Regulations in regard to it.

This sample contained .25% Boric Acid. Vendor was cautioned.

2. Cream sold as Preserved Cream.

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservatives were correct:—

(i) Correct statements made ... 4

(ii) Statements incorrect ... Nil

Total ... 4

(iii) Percentage of preservative found in each sample.

Boric Acid494040404040404040404040404040

(b) Determinations made of milk fat in cream sold as preserved cream:—

(i) Above 35 per cent. ... 3

(ii) Below 35 per cent. ... 1

Total ... 4

- (c) Instances where (apart from analysis) the requirements as to labelling or declaration of preserved cream in Article V (1) and the proviso in Article V (2) of the Regulations have not been observed:—Nil.
- (d) Particulars of each case in which the Regulations have not been complied with and action taken:—
 One sample contained .49% Boric Acid. The vendor was cautioned.

3. Thickening Substances. Any evidence of their addition to cream or to preserved cream. Action taken where found.

The Analyst makes no remark upon the question of thickening substances in his reports.

4. Other Observations (if any). Nil.

MEAT.

In addition to the Public Slaughter-houses, there are 3 private slaughter-houses, 2 of which, viz., the L. & N.E. Railway and L.M. & S. Railway, are used in respect of the slaughter of sheep and lambs, the third, that of Messrs. Cavaghan & Gray, Harraby, being exclusively used for the slaughter of pigs.

PUBLIC SLAUGHTER-HOUSES.

The following Table gives particulars of Animals killed, Carcases examined, and particulars of Carcases unfit for human food:—

Animal	number of animals slaughtered and	of carcases specially referred for ex-	Number in which the whole carcase was unfit for human food	Number in which a portion of a carcase was unfit for human food	Whole carcase	affected perculosis. Part of carcase condemned
Oxen	4,106	78	56	22	25	14
Sheep	14,385	41	40	1		• • •
Calves	436	8	8		1	• • •
Pigs	5,896	8	7	1	4	1
4						
Totals	24,823	135	111	24	30	15

OTHER FOODS.

Information concerning unsound food, food inspection, bakehouses, &c., and the work under the Sale of Food and Drugs Acts, is given on pages 70-72 and 74-75 (Report of the Sanitary Inspector).

Table showing the Age Groups and Wards in which cases of Infectious Diseases were notified during 1924.

l		Number of to large to large	171
		redanna 119N eftitoa	030 057 057 198 1112 05 100 177 174 174 174 174 174 174 174
	Number of cases in- correctly notified		77 : : : : : : : : : : : : : : : : : :
		rədniun latoT əditon	245 685 687 1112 322 100 104 104 104 104 104 104 104 104 104
۱		Newtown &	1 7 9 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Ward	Caldewgate	32 8 13 14 19 19 19 19 19 19 19 19 19 19 19 19 19
	ach	St. Cuthbert's	65 : 2 : 1 : 2 : 1 : 1 : 2 : 1 : 2 : 1 : 2 : 1 : 2 : 1 : 2 : 2
	Cases notified in each Ward	Пептоп Нојпње	22 : 4 - 1 : : : : : : : : : : : : : : : : : :
	otified	Сиггоск	11,000
	ses no	St. Nicholas	13: 11: 12: 13: 13: 13: 13: 13: 13: 13: 13: 13: 13
	of Ca	Greystone	23 : 1 : 1 : 1 : 3 : 3 : 3 : 3 : 3 : 3 :
	Number of	vdnoilg A	8 1 10 10 10 11 10 11 10 11 10 11 11 11 1
	Num	Віскетgа те	© 6 : 6 6 4 4 4 4 4 1 1 1 1 1 1 1 0 0 0 1 1 1 1 1
0		Stanwix and Etterby	> □ : : : : : : : : : : : : : : : : : :
	at	-qu ban co	: : : : : : : : : : : : : : : : : : :
		45—65 years	
	Number of Cases Notified various Ages.	25—45 years	6 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	of Cases No various Ages.	15—25 years	#41204400 :U4 :C0 :
	of (5—15 years	157 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	mber	1—5 years	65 38 38 38 38 38 38 38 38 38 38 38 38 38
	N	TabuU Trey	2 : :1 :10 : :2 : :2 : : : : : : : : : : : : : :
			Scarlet Fever Diphtheria Puerperal Fever Erysip-las Malaria Acute Primary Pneumonia Acute Influenzal Pneumonia Encephalitis Lethargica Ophthalmia Neonatorum Cerebro-spinal Fever Para-Typhoid Fever Measles Pulmonary Tuberculosis Other forms of Tuberculosis Enteric Fever

INFECTIOUS DISEASES.

During the year 815 notifications of infectious disease were received, 124 of which related to various forms of tuberculosis, and 691 to other infectious diseases.

The number of deaths certified as due to the seven principal zymotic diseases was 40, equal to a zymotic death-rate of 0.7 per 1,000 of the population. In the previous year 79 deaths were certified as due to zymotic diseases.

SCARLET FEVER.

During the year 245 cases of scarlet fever were notified, an increase of 95 on the number notified during the previous year, the incidence of the disease being higher during the latter part of the year. Cases occurred in all parts of the City, and there was no evidence of any particular local spread of infection.

171 of the patients, or 69.7 per cent., were removed to the Isolation Hospital.

4 deaths of residents were registered as being due to scarlet fever.

S cases of this disease occurred at the Cumberland Infirmary, 2 of whom were patients who did not reside in the City.

1 patient notified as suffering from diphtheria was found not to be suffering from the disease, but from scarlet fever.

9 return cases occurred.

Table showing notifications, cases isolated, and number of deaths from scarlet fever during the years 1920-1924.

_	Year.	No. of cases notified.	No. of cases isolated in Hospital.	Average period in Hospital (days).	No. of return cases.	No- of deaths.	Deaths per 100 cases.
	1920	70	47	428	1	0	0.0
	1921	79	57	43.5	0	1	1.
	1922	104	65	40.5	2	1	0.
	1923	150	82	41.7	2	1	0.
	1924	245	171	35.9	9	4	1.6

DIPHTHERIA.

The number of cases of diphtheria notified was 68, compared with 87 in 1923.

9 deaths of residents were registered as being due to diphtheria.

The death-rate for this disease was 0.16 per 1,000 of the estimated population at all ages.

46, or 67.6 per cent., of the cases notified were removed to the Isolation Hospital.

In 11 instances the patient was subsequently found not to be suffering from diphtheria.

Table showing notifications, cases isolated, and number of deaths from diphtheria during the years 1920-1924.

Year.	Year. No. of cases notified.		No. of deaths.	Neaths per 100 cases.
1920	35	20	2	5.7
1921	57	42	8	14.0
1922	64	48	2	3.1
1923	87	46	10	11.5
1924	68	46	9	13.2

ANTI-DIPHTHERIA SERUM.

36 applications were made by medical practitioners for the free supply of anti-diphtheria serum, 224,000 units being supplied.

Table showing case mortality of Scarlet Fever and Diphtheria isolated in Hospital compared with Home Cases.

-		SC	ARLET	FEVE	З.	DIPHTHERIA.				
		Hosp Case		Home Cases.		Hosp Case	ital	Home Cases.		
	Year.	No. of Cases Isolated.	rate	No. of Cases Isolated.	rate	Cases	rate	Cases	rate	
1										
-	1920	47	0.0	20	0.0	20	5.0	10	10.0	
Other Persons	1921	57	1.7	22	0.0	42	11.9	15	20.0	
-	1922	65	1.5	39	0.0	48	4.1	16	0.0	
-	1923	82	0.0	68	1.4	46	6.5	41	17.0	
And in case of the last of the	1924	171	1.7	74	1.3	46	13.0	22	13.6	

SMALLPOX.

The City was free from Smallpox. Notifications were received from Port Sanitary Authorities that 5 persons were proceeding to Carlisle who had arrived in the country in ships on which Smallpox had occurred.

ENTERIC FEVER.

One case of Enteric Fever was notified during the year. The patient, a boy of 9 years of age, was admitted into the Cumberland Infirmary from a village adjacent to Carlisle, on account of a broken leg. Certain clinical signs present caused him to be suspected as suffering from Enteric Fever, and he was removed to the Isolation Hospital; this diagnosis was, however, not sustained, the symptoms observed being in all probability due to Tuberculosis, from which he was also suffering.

PARA-TYPHOID FEVER.

7 cases of Para-typhoid Fever were notified during the year. 1 of these cases was a resident of Carlisle, who was taken ill about the 26th July. Investigations into the history of the case gave no reliable evidence of the probable date or the source of infection. The patient, a young woman aged 27, had not been away from the City for several months. She was removed to the Isolation Hospital, and the behaviour of the illness throughout justified the diagnosis of Para-typhoid Fever.

With regard to the other 6 cases, these were notified from the Cumberland Infirmary as follows:—

23rd August, two females, aged 17 and 23 years respectively, both resident in the County of Cumberland, admitted into the Infirmary in one instance for a simple operation, and in the other for the purpose of radiography.

9th September, a female, aged 31, also a resident in the County of Cumberland, admitted to the Infirmary for removal of appendix. The clinical history and bacteriological findings supported the earlier diagnosis.

24th October a female, aged 16. This patient, whose home was in the County of Westmorland, at the time of notification was employed as a maid at the Infirmary. At the commencement the illness was suggestive of acute abdominal inflammation. At a later date the blood gave a positive re-action for Para-typhoid Fever.

3rd November, a female, aged 3, also a resident of the County of Westmorland, who had been operated upon for an abscess in connection with the appendix, later on developed signs of Para-typhoid Fever; this diagnosis was supported by the blood test.

8th November, a female, aged 17, who for some time had been engaged as a maid at the Infirmary. A Widal test was positive in dilutions up to 1-100.

Table showing the average number of cases notified as enteric fever for 5-year periods, 1890—1919, and for the 5 years 1920—1924.

Years.	Average for periods of 5 years.	Year.	Number of cases notified.
1890-1894	21.2	1920	2
1895-1899 1900-1904	18·6 12·6	1921 1922	
1905-1909 1910-1914	3·2 3·8	1923 1924	8
1915-1919	1.4		

No case of typhus or continued fever was notified.

MALARIA.

8 notifications relating to patients suffering from Malaria were received. In each instance the patient had been abroad on active service, and had been infected with the disease whilst abroad.

No case of malaria of indigenous origin was notified.

DYSENTERY.

No case of Dysentery was notified.

PNEUMONIA.

144 notifications of cases of Pneumonia were received during the year. In 32 instances the disease was stated to be of the acute influenzal type, and in 112 instances of the acute primary type.

The cases were investigated by the Health Visitors and, where the patient was not removed to Hospital, isolation carried out as far as possible, and where necessary advice given as to nursing and prevention of infection to others. 259 visits by the Health Visitors were made in this connection.

In 2 instances the patient was removed to Hospital.

Death took place in 6 instances of the cases notified as influenzal pneumonia, and in 22 instances of those notified as primary pneumonia.

INFLUENZA.

23 deaths of residents were registered as due directly to influenza, as against 7 in 1923.

The age distribution of the deaths occurring among the 23 persons was as follows:—

0 to 1	to 2	to	5 to 15	15 to 25	25 to 35	to	45 to 55	to		to	85 and up- wards	Total
1	• • •			2		1	1	2	7	9		23

INFLUENZA VACCINE.

No application was received during the year for a supply of influenza vaccine.

ENCEPHALITIS LETHARGICA.

- 6 cases of Encephalitis Lethargica were notified during the year, 3 of whom were males and 3 females. In 5 instances the notifications related to residents of Carlisle. Brief particulars of the cases are as follows:—
- (1) Female, aged 18, weaver, who 8 weeks before had suffered from influenza, began with drowsiness followed by slight squint and double vision. There were no other subjective or objective signs of nervous disease. This patient, who recovered entirely, was considered an abortive case of Encephalitis Lethargica.
- (2) Male, schoolboy, aged 12. Treated in the Cumberland Infirmary for rise of temperature, drowsiness, slight nystagmus and squint. This case, which recovered entirely, was regarded as an abortive case of Encephalitis Lethargica.
- (3) Male, schoolboy, aged 14, commenced with double vision, slight squint, and vomiting, followed by delirium for four days; these symptoms passed off and the patient became unnaturally sleepy, but was fairly

easily roused. This continued for about a week, when his condition improved and terminated in complete recovery. This was regarded as an abortive case of Encephalitis Lethargica.

- (4) Female, aged 18, commenced with insomnia and disordered movement of limbs, followed by considerable excitement for about a week, which passed off and was followed by drowsiness, the development of ptosis of both eyelids, headache, and hoarseness. All these symptoms appeared to pass away entirely, and the patient became bright and cheerful. A month later, however, she began to have difficulty in swallowing, which rapidly progressed, and this, with other grave symptoms, terminated fatally.
- (5) Male, school boy, aged 12, whose illness began with unnatural sleepiness which lasted for a week, followed by double vision, which was present for three days; at the end of that period slight dropping of one eyelid and dilatation of one pupil, with absence of re-action to both light and accommodation, was observed. This case recovered, with the exception of slight dilatation of the pupil, which now appears to be permanent. It was regarded as an abortive case of Encephalitis Lethargica.

With regard to the case of the non-resident, a woman aged 44, married, who resided a good distance from Carlisle, was admitted into the Cumberland Infirmary on account of this illness, but died immediately after admission. This was considered to be a case of Encephalitis Lethargica.

CEREBRO-SPINAL FEVER.

During the year 4 cases of Cerebro-spinal Fever were notified. In 3 instances the illness was fatal. Brief particulars of the 4 cases are as follows:—

- (1) Female, aged 7, began with what appeared to be a cold with vomiting, followed by pains in the head and neck, which caused her to cry out. This condition was quickly followed by grave symptoms of disease of the central nervous system, and the patient died 5 days after receipt of notification.
- (2) Male, aged 8, exhibited high temperature, intense headache, and twitching of limbs, marked retraction of head, and arching of spine, who died whilst the doctor was paying his first visit before the case was notified.
- (3) Female, aged 16, factory worker, began with severe frontal headache, nausea, stiffness of neck, and pain in back. Other characteristic symptoms of disease of the central nervous system quickly developed. This patient was admitted into the Cumberland Infirmary, and eventually recovered. She left feeling well.
- (4) Female, married, aged 42, admitted into the Cumberland Infirmary with symptoms of acute disease of the central nervous system. Died six days after admission.

TETANUS, &c.

No case of tetanus was notified during the year, and no application was received for a supply of tetanus antitoxin.

NOTIFICATION FEES.

The total amount paid in fees for notifications of all notifiable diseases during 1924 was £82 1s. 0d.

Particulars relating to puerperal fever, ophthalmia neonatorum, measles, whooping cough, chickenpox, and mumps, are given on pages 57 and 58.

SUMMARY OF NURSING ARRANGEMENTS, HOSPITALS, AND OTHER INSTITUTIONS, AVAILABLE FOR THE DISTRICT.

Professional Nursing in the Home.

- (a) General. None.
- (b) Infectious. An annual retaining fee of £20 is paid by the Council to the Queen's Nurses of the Carlisle District Nursing Association, on condition that nursing facilities will be made available by them for such cases of puerperal fever, ophthalmia neonatorum, measles, whooping cough, and epidemic diarrhæa, as the Council may require them to attend. In addition, 1s. per visit is paid on account of such cases.

Midwives.

The Corporation does not employ midwives except at the Maternity Hospital, and does not pay any subsidy in respect of any midwife practising in the district.

Hospitals provided or subsidised by the Local Authority.

- (1) Tuberculosis. The Corporation has a call upon 20 beds in the Blencathra Sanatorium, Threlkeld, Cumberland, in accordance with the agreement made between the Local Government Board, the Sanatorium Committee, and the Corporation.
- (2) Maternity. A hospital has been provided by the Corporation at 3 George Street, Carlisle, containing 13 beds and cots.
- (3) Children. There is a children's ward at the Cumberland Infirmary which provides for local requirements. The Corporation make a general contribution to the funds.
- (4) Fever. General infectious diseases are sent to Crozier Lodge Isolation Hospital, Carlisle, 50 beds.
- (5) Small pox. The Corporation has provided a hospital for the isolation of small pox a few miles out of the City, containing 12 beds.
 - (6) Others. None.

HE Z CENTRES EXISTING CLINICS AND INFANT WELFARE LIST OF

Provided by.	Carlisle Corporation	Do.	The Carlisle Mothers' and Babies'	Do.	Do.	Do.	Carlisle Corporation	1)0.	n Do.	Do.	Do.	Jointly by Carlisle Corporation and the Cumberland County Council
Accommodation.	Waiting, Consulting, and Weighing Rooms	Waiting, Consulting, and Dressing Rooms	One Large Room	Two Rooms	One Room	Two Rooms	Three Rooms	Two Rooms	Two Rooms and Dark Room	Two Rooms	Four Rooms and Laboratory	Three Rooms
Address.	Maternity Hospital, 3 Gcorge Street	Do.	West Walls	St. John's Hall,	Caldewgate	Howie Boyd Hall, Currock	2 George Street	Do.	Do.	Do.	1 Gerrge Street	Cumberland Infirmary
Nature of Centre.	Maternity and Child Welfare (Post-natal), once weckly	Maternity and Child Welfare (Antenatal), once weekly	Infant Welfare Centre, weekly	Do. do.	Do. do.	Do. do.	School Clinic, Minor Ailments, daily	Do. Dental, twice weekly	Do. Special Ophthalmic Examinations, weekly	Do. X-Ray, weekly	Tuberculosis Clinics, four times weekly	Venereal Clinic, five sessions weekly and intermediate treatment

Institutional Treatment for Unmarried Mothers, Illegitimate Infants, and Homeless Children.

With the exception of a small house provided by the Diocesan Association at 25 Myddleton Street, Carlisle, which makes provision for one or two expectant unmarried females temporarily, there is no institution providing these facilities except those of the Poor Law Authority.

Ambulance Facilities.

- (a) For infectious cases. An ambulance is kept at the Isolation Hospital for the use of cases occurring in the City and the adjacent Rural District.
- (b) For non-infectious and accident cases. A public ambulance, provided by the Corporation, for accidents and illness other than infectious disease is kept at the Fire Station, Spring Gardens Lane, for which the following charges are made:—

For residents in the City 7/6 for each removal For not exceeding 2 miles outside

the City 10/-

For beyond 2 miles and not exceeding 3 miles ... 12/6

For each additional mile thereafter (limited to 20 miles outside the City) ... 3'- per mile

Between 9 p.m. and 7 a.m. 50 per cent. additional is charged.

In cases of accidents in the streets no charge is made for the removal of persons to the Infirmary or their homes.

BACTERIOLOGICAL WORK.

During the year 74 specimens of sputum have been examined for the presence of tubercle bacilli, in 24 of which the organism was found.

43 swabs from throats were submitted to the Clinical Research Association for examination for the Klebs Loeffler Bacillus, and in 15 instances the organism was found.

19 samples of milk were purchased from persons purveying milk within the City and submitted to the Public Health Laboratory, Manchester, for experimental inoculation, and in 18 instances no ill effect was observed in the health of the animals experimented upon. In 1 instance tubercle bacilli were found. Inoculation of animals from further samples of milk taken from the cows at the same farm gave no indication of the presence of tubercle bacilli.

5 samples of milk taken by the Veterinary Inspector from cows at a farm outside the district were sent to the Clinical Research Association, London, for bacteriological examination, and were all found to be free from tubercle bacilli.

1 specimen of blood for examination for the presence of B. Typhosus, B. Paratyphosus, B. Aertycke, and B. Enteritidis, was sent to the Public Health Laboratory, Manchester. Cultures were all negative, as was also the result of a Weil-Felix test.

2 specimens of Fæces were sent to the Public Health Laboratory, Manchester, for examination for the presence of organisms of the Typhoid Group; no organisms of this group were isolated.

4 samples of City water, taken from a domestic tap, were submitted to the Public Health Laboratory, Manchester, for bacteriological examination. A tabulated summary of the reports is given on page 15.

TUBERCULOSIS.

131 notifications of tuberculosis were received during the year, of which 7 were duplicates. Of the primary notifications 92 were by medical practitioners and 32 by the School Medical Officers or Tuberculosis Officer. 104 notifications related to pulmonary tuberculosis and 20 to other forms of the disease.

Summary of Notifications of Tuberculosis from 30th December, 1923, to 3rd January, 1925.

NOTIFICATIONS ON FORM A.

							Num	Number of Primary Notifications.	Prima	ry No	tificat	ions.			
		Ages.	0-1	1-5	-101	0-15 1	5-202	0-25 25	-35 3	5-45 46	5-55 5	5-65	& up- wards.	fotal Primary Noti- fications.	0-1 1-5 5-10 10-15 15-20 20-25 25-35 35-45 45-55 55-65 & up- ary Noti- fications on wards. Form A.
Pulmonary Non-pulmonary	Males Males Males Females		:- 2-	7	9 : : e	00 ::	25 - 1 - 23	9 10 11 1	6 8 6 7 :	410	ო∞ ⊣ :	ro co : :	- es : :	40 43 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4 4 7 7 7 7
	Totals			ক	1	7	13	13	19	6	12	00	4	26	104

NOTIFICATIONS ON FORM B.

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-
2
FORM
ON
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15/2
1
4
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	Pulme Non-p	
1		
Total Noti- fications on Form B.	9 12 3 3	27
Number of Primary Notifications. 0-5 5-10 10-15 Total.	33 88	27
mber of Primi Notifications. 5-10 10-15 Tc	11.62	17 10
Noti 5-10	1.9000	17
Z 0-2		:
Ages.	Males Females Males Females	Totals
	Pulmonary Non-pulmonary	

		Poor Law Institutions.	Sanatoria,
Pulmonary	Males	4	23
Non-pulmonary	• •	: :	· - :
	Totals	10	51

SUPPLEMENTAL RETURN.

New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health otherwise than by notification on Form A or Form B under the Public Health (Tuberculosis) Regulations, 1912.

Ages.	0-1	1-5	5-10	10-15	15-20	20-25	25-35	35-45	45-55	55-65	65 and up wards.	Tota: Casers
Pulmonary— Males	• • •	• • •			1					1	1	3
Femiles	•••	1	* * *				* * *	1		• • •	* * *	2
Non-pulmonary Males	2	1	1		2				•••			6
Females	1	3	1		• • •			• • •	•••			5
Totals	3	5	2		3			1		1	1	16

The total number of deaths of City residents registered from all forms of tuberculosis was 69, equal to a death-rate of 1.2 per 1,000 of the population at all ages. Of this number, 49 (71 per cent.) were due to pulmonary tuberculosis, equal to a death-rate of 0.8 per 1,000 of the estimated population at all ages.

Distribution of the Deaths from Tuberculosis in the various Wards of the City, 1924.

	Stanwix and Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton	St. Cuthbert's	Caldewgate	Newtown & Belle Vue	Carlisle
Pulmonary .	1	2	6	10	5	4	3	7	8	3	49
Non-Pulmonary .	1	1	2	3	4	3		2	3	1	20
	-								-		
Totals	2	3	8	13	9	7	3	9	11	4	69

Age and Sex distribution of New Cases and Deaths from Tuberculosis, 1924.

Ages.	0-1	1-5	5-10	10–15	15–20	20-25	25–35	35–45	45-55	55–65	65 and over.
New Cases.											
Pulmonary—											
Male		1	13	4	3	6	9	4	3	5	1
Female	1	I	6	8	7	5	8	5	8	3	3
Non-Pulmonary—											
Male	2	• • • •	2 3	1	1	1	2		1		
Female	1	2	3	1	2	1					
Deaths.											
Pulmonary—											
Male		1			3	2	6	3	3	3	2
Female		1		2	3	2	4	3	8	1	2
Non-Pulmonary—											
Male	3	1	1		3	1		1	1		
Female	1	5	1		1		1				

Table showing the period persons dying in 1924 survived after notification.

	ed	on	in			Surv	rived	l mo	ore	thai	n		
			ied 7	1 week	1 month	3 months	6 months	9 months	1 year	1½ years	2 years	3 years	4 years
Pulmonary	5		5	39	35	29	21	18	16	14	13	9	6
Non-Pulmonary	8	3	3	6	6	6	3	2	2	2	2	2	1

Deaths from Tuberculosis, Influenza, and other Respiratory Diseases, 1920-1924.

Year.	Pulmonary Tuberculosis.	Non-Pulmon- ary Tubercu- losis.	Tuberculosis, all forms.	Influenza.	Other Respiratory diseases.
1920	36	15	51	28	119
1921	46	22	68	18	105
1922	50	14	64	55	136
1923	40	14	54	7	89
1924	49	20	69	23	115

The number of persons suffering from tuberculosis who died before notification was somewhat smaller than in 1923, viz., 19 per cent., as against 26 per cent., of the deaths registered from all forms of tuberculosis, but the condition is still far from satisfactory. Furthermore, in 16 per cent, of the notified cases the patient died either before receipt of the notification or within one week after. 60 per cent, only of the fatal cases survived more than a month after notification, 50 per cent, survived over 3 months, 34 per cent. over 6 months, and 26 per cent. over a year. It is therefore obvious that the Local Authority are severely handicapped in their efforts to check this scourge, and until the existence of cases is brought to the attention of the Medical Officer of Health earlier, together with a fuller use of the Tuberculosis Clinic in respect of the assistance in the diagnosis in doubtful cases, no substantial progress is likely to be This matter is in the hands of medical practitioners, the patients themselves, and their relations, whom it is hoped will take greater advantage of the facilities provided by the Authority's scheme.

The Tuberculosis Officer examined 172 new cases during the year, 152 at the Dispensary and 20 at the homes of the patients. 73 of the patients were notified cases, and 17 were notified after observation by the Tuberculosis Officer. 36 were classified as doubtful, and 46 were found not to be suffering from tuberculosis.

Of the notified cases, 36 were insured persons, 2 were discharged soldiers, 32 children of school age, and 20 outside these categories. 77 of the patients were suffering from pulmonary tuberculosis, and 13 from non-pulmonary tuberculosis, the classification being as follows:—

		Insured Persons.	Discharged Soldiers.	School Children.	Others.	Total.
Stage I		. 6		23	3	32
Stage II		18	1	1	5	25
Stage III		10	1		9	20
		34	2	24	17	77
Non-Pulmona	ry	2		8	3	13
		36	2	32	20	90

The classification of the contacts, &c., examined was as follows:—

	Insured Persons.	School Children.	Others.	Total.
Doubtful	 1	31	4	36
Not Tubercular	 10	31	5	46
Afterwards Notified	 4	11	2	17
	15	73	11	99

235 old cases also came under the personal supervision of the Tuberculosis Officer, and of these patients 180 were notified cases and 55 contacts and suspects still regarded as doubtful.

The classification of the old cases was as follows:-

	Insured Persons.	Discharged Soldiers.	School Children.	Others.	Total.
Notified	 49	21	67	43	180
Not Notified	 . 2		47	6	55
	51	21	114	49	235

The total number of patients under supervision during the year was therefore 407, and the total number of attendances at the Tuberculosis Dispensary for examination was 1579, made up as follows:—

	Insured Persons.	Discharged Soldiers.	School Children.	Others.	Total.
Notified	261	102	542	154	1059
Not Notified	26		468	26	520 \
				100	- F 50 ()
	287	102	1010	180	1579

139 visits to the homes of patients were made by the Tuberculosis Officer.

45 patients received treatment by means of Tuberculin (B.E.), the total number of injections given being 480.

The Tuberculosis Clinic was open on 205 occasions, the average number of patients attending per session being 7.7. 5138 visits were made by the nurses to the homes of patients on the register, which at the end of the year contained 824 names. 682 of these were suffering from pulmonary tuberculosis, and 142 from non-pulmonary tuberculosis.

Cod Liver Oil and Malt were supplied free in 19 instances, sputum flasks in 5 instances, and thermometers in 3 instances.

74 specimens of sputum were examined, in 24 of which Tubercle Bacilli were found.

There were 9 patients in Blencathra Sanatorium at the beginning of the year, and 51 were admitted during the year; 2 of the latter were admitted twice, making a total of 58 patients receiving sanatorium treatment. 48 patients were discharged, including 2 who were twice discharged, and of the net total of 46 the condition on leaving was as follows:—Much improved, 19; improved, 22; unchanged, 5. The average duration of residential treatment was 123.5 days. 12 patients were still undergoing treatment at the end of the year.

The absence of facilities for the treatment away from the home of the advanced case is a serious drawback, as these disabled and infecting persons will not entertain the idea of removal to the shelters at Fusehill, consequently they remain in their own homes, which are so often overcrowded or otherwise unsatisfactory, a danger to those about them.

TREATMENT OF DISCHARGED SOLDIERS.

1 new case (Stage II) and 1 new case (Stage III), and 21 old cases, attributable to or aggravated by service in the Great Way, have been under supervision during the year. The advanced cases were seen at their own homes at regular intervals, and the others paid 102 visits to the Dispensary.

5 pensioners died during the year.

2 peusiouers were receiving combined treatment and training at Englethwaite Tuberculosis Colony at the beginning of the year, and both were discharged during the year. One has since died, the condition of the other being very satisfactory. 2 pensioners were admitted into Blencathra Sanatorium for periods of 28 and 56 days respectively, the condition on discharge being improved in both cases.

PUBLIC HEALTH (VENEREAL DISEASES) RECULATIONS, 1916.

DIAGNOSIS AND TREATMENT OF VENEREAL DISEASES.

During the year 203 persons residing in Carlisle, 139 of whom were males and 64 females, were under treatment or observation at the Clinic at the Cumberland Infirmary. This is a decrease of 14 persons upon the figure for the previous year.

118 new patients attended for the first time, as compared with 123 for the previous year.

82 patients were found to be suffering from syphilis, 5 from non-syphlitic chancre, 92 from gonorrhea, and 24 from conditions other than venereal disease.

1235 attendances were made by these patients, a decrease of 27 on the figure for the previous year. In addition, 2384 attendances were made by patients for intermediate treatment by irrigation, and 258 doses of arsenobenzol compounds were administered to patients.

CLINICS.

Clinics were held on the same days and at the same hours as in the previous year, viz.:—for women and children on Mondays at 2-30 p.m., and Thursdays at 5-30 p.m. The male clinics for syphilis were held on Wednesdays at 2-30 p.m., and Thursdays at 6 p.m.; and the male clinics for gonorrhæa on Wednesdays at 6 p.m.

New cases were seen at any of the clinics.

With regard to the examination of pathological material, in addition to the figures given in the following table, 2 specimens for the detection of Gonococci and 69 for Wassermann Re-action were sent on behalf of Medical Practitioners to the Public Health Laboratory, Manchester.

Return relating to all persons resident in the City of Carlisle who were treated at the Treatment Centre at the Cumberland Infirmary during the year ended the 31st December, 1924:—

	Sypt	ilis.	Sc		Gonor	rhœa.	other	itions than creal.	То	tal.
	M	k	М	F	М	F	М	F	M	F
1. Number of persons who, on the 1st Jan., 1924, were under treatment or observation for 2. Number dealt with during the year for the first time and found to be suffer-	34	17	1		27	6			62	23
ing from	12	19	4	•••	45	14	16	8	77	41
Total-Items1 2	46	36	5		72	20	16	8	139	64
3. Number of persons who ceased to attend (a) before completing the first course of treatment for (b) after one or more courses, but before	4	6	1		18	6			23	12
completion of treatment for (c) after completion of treatment, but	13	5	••		• • •	•••		•••	13	5
before final tests as to cure of 4. Number of persons transferred to other Treatment Centres	7	5	1	• • •	2		•••		10	5
after treatment for 5. Number of persons discharged after completion of treatment and observ-		1			•••	1	•••	• • •	•••	2
ation for 6. Number of persons who, on the 1st Jan., 1925, were under treatment or obser-	4		2	0 0 0	16		•••	• • •	22	
vation for	18	19	1		36	13			55	32
Total-Items 3, 4, 5 & 6	46	36	5		72	20		• • •	123	56
7. Out-Patient attendances:— (a) For individual attention by the Medical Officer (b) For intermediate treatment, c.y., ir-	228	220	7	•••	6 2 8	100	36	16	899	336
rigation, dressings, etc.	4		3		2370	7			2377	7
Total Attendances	232	220	10	•••	2998	107	36	16	32 76	343

Aggregate number of "In-patient days" of treatment given:—Nil. Number of doses of Salvarsan-substitute administered in Out-patient Clinic:—258.

Examination	of	Pathol	ogical	Mate	erial	:

	For Detection of			For Wasser-
	Spirocheetes.	Gonococci.	Other Organisms.	mann Re-action.
(a) Specimens which were examined				
at, and by the Medical Officer of,				
the Treatment Centre	2	41	6	
(b) Specimens from persons attend-				
to an approved laboratory	• • •	8	3	149
(b) Specimens from persons attending at the Treatment Centre which were sent for examination to an approved laboratory		8	3	149

With regard to the joint scheme of the County Council and the City, during the past year a total of 416 persons were treated at the two treatment centres, of whom 254 were seen for the first time, the remainder being carried over from the previous year. 68 of these were found not to be suffering from venereal disease, leaving 348. The figure for 1923 was 379.

In the number of new cases of syphilis (64) there was a decrease of 45, but there was an increase of 30 in the new cases of gonorrhæa (111).

Areas in which		New	Total
Patients resided.		Patients.	Attendances.
Carlisle		 118	3619
Cumberland		 125	924
Westmorland		 3	11
Dumfriesshire		 2	45
Ireland		 2	12
London		 2	2
Durham		 1	21
Lancashire		 1	2
	Totals	 254	4636

NOTES BY DR. MC. MURTRIE ON THE INCIDENCE OF SYPHILIS AND GONORRHOEA IN CARLISLE DURING THE 5-YEAR PERIOD, 1920-24.

Five years have now elapsed since the Venereal Diseases Clinic was opened at the Cumberland Infirmary, and it is of interest to note the variation in the incidence of syphilis and gonorrhoa. This is graphically shown on the accompanying chart.

The number of new cases of syphilis fell from 70 in 1920 to 31 in 1924. The figure for 1920 is rather mis-

leading, as this was the first complete year of the Clinic, and consequently the number of new cases was abnormally high. Allowing for this, the decrease is remarkable.

Still more striking is the fall in cases of recently acquired syphilis. Here the 1920 figure is not in any way misleading, and there is a decrease from 26 to 5. Of these 5 cases in 1924, 3 are known not to have been contracted in Carlisle or Cumberland. The remaining 2 may have been contracted in Carlisle

Congenital syphilis appears to be declining, having reached its maximum in 1921 to 1923. This is better shown in the Cumberland figures, where the maximum was in 1923.

We can with confidence look forward to the time when syphilis in this county will be almost a thing of the past, and those cases which do occur will be contracted for the most part abroad. In larger cities than ours, especially seaports, the extermination of the disease will naturally take longer, but it appears to be merely a question of time. The resulting benefit to the health of the community will be enormous, and the longevity of the race will be materially increased.

One cannot say the same about gonorrhoea. There is no really satisfactory treatment now known for this disease, and all the efforts made to combat it merely tend to shorten the period of infectivity. Many cases are still untreated or insufficiently or improperly treated, and many cease to attend before they are rendered non-infective.

From 1922 there has apparently been a steady rise in the incidence of Gonorrhea in Carlisle. The number of new cases in 1922 was 38; in 1924 it was 59. To some extent this may be discounted by the increasing popularity of the Clinic, but there can be little doubt that the real explanation is that the disease is spreading, and there seems to be no reason why it should not continue to spread unless some more adequate measures can be found to combat it.

Chart by Dr. Mc. MURTRIE, illustrating the incidence of Venereal Diseases in Carlisle, 1920—1924.

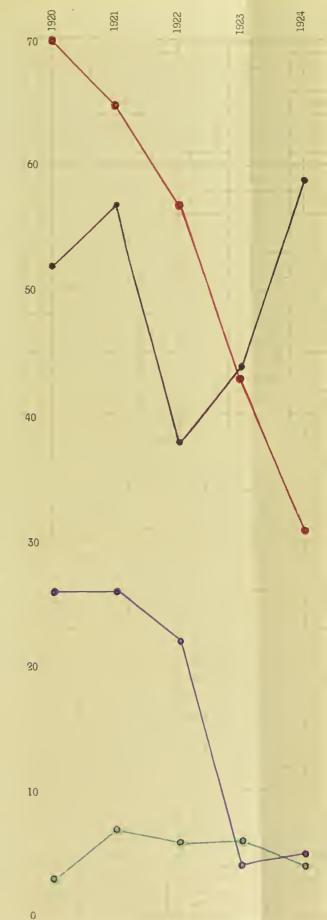
PATIENTS ATTENDING AT V.D. CLINIC, CUMBERLAND INFIRMARY, CARLISLE, AND RESIDING IN CARLISLE.

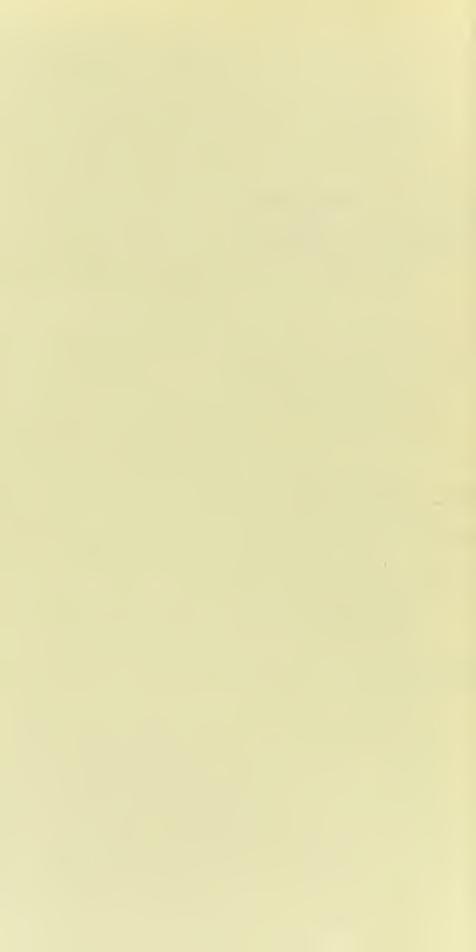
RED. — New Cases Syphilis.

BLACK. — New Cases Gonorrhoea.

violet.—New Cases Syphilis contracted within 6 months prior to date of first attendance, i.e., recent infections.

GREEN.— New Cases Congenital Syphilis.





MATERNITY AND CHILD WELFARE.

During the past year 1,173 notifications of birth were received, 1,122 of which related to live births and 51 to still-births. 629 were notified by medical practitioners, 544 by midwives, and in 18 instances failure to notify occurred.

HEALTH VISITORS.

The following is Corporation Health			of the	visits	paid l	by the
Total number of ho	mes vi	isited				13371
Primary visits in co						1130
Re-visits in connection births-		n the n	otificat	tion of		
0—1 year					4738	
1—2 years					3583	
2—3 years					3328	
3—4 years					2746	
4—5 years					2250	16645
			2.42	-		
Total number of ro	utine	visits	to chil	dren	• • •	17775
Visits to boarded-ov	it child	lren	• • •			114
Visits to expectant i	mother	`s—				
Primary					241	
Re-visits					287	528
Visits in connection						りたび
						16
Deaths of child			vear		• • •	95 40
Ophthalmia Ne	onator	um				49
						77
					• • •	234
Broncho-pueum						97
Acute Lobar a	nd Inf	luenzal	Puen	monia		259
Measles					• • •	853
Whooping Cou					• • •	435
Chicken-pox						34
Mumps						302
Puerperal Feve	1.					1
Spina Bifida						2

INSPECTION OF MIDWIVES.

During January 20 midwives gave notice of intention to practise, and on later dates 12 others notified their intention to practise, making a total of 32. 10 midwives left the City, leaving at the end of the year 22 midwives on the register.

These midwives attended a total of 557 confinements.

No case of puerpeval fever occurred in the practice of a midwife.

Notices in accordance with the rules of the Central Midwives' Board were received in connection with the following conditions:—

of a medical practitioner 20 Cases in which a midwife advised that medical help should be obtained 93
Notification of the intention to substitute artificial
for breast feeding 22
Notification of still-births 13
Notification of having laid out a dead body 4
Notification of liability to be a source of infection 5
Notification of death of infant 1

The circumstances in which medical help was either obtained or advised are given as follows:—

Condition of Mother-

Twins

Ante-natal					10
Excessive vomiting	19'			2	
Hæmorrhage				6	
Swelling of feet,	hands,	face,	&c.	1	
Abortion				1	
During labour					38
Delayed labour				16	
Malpresentation		:		8	
Retained Secundin	ies			3	
Varicose Veins				2	
Contracted Pelvis				1	
Fits				1	
Nervousness				5	

...

2

74.5					
Post-natal		• • •			38
Rupture of Perinc				30	
Hæmorrhage				2	
Rise of Temperati	.11'e			2 1	
Swelling of Abdon	ien			1	
Inflammation of	Breast	·		1	
Weak Heart				1	
Fits			• • •	1	
					0.51
Condition of Child	• • •			* * *	27
Feebleness		• • •		9	
Prematurity	• • •			3	
Hæmorrhage from	Bow	els		1	
Conjunctivitis				9	
Jaundice				3	
Fits				2	
Mother's milk insuffici	ent of-				1 1 3 - 8
By midwives on account of	<u> </u>				.)
Insufficient milk		• • •		• • •	3. 1
Debility of mother		• • •			4
Puerperal Fever					1 2
Disinclination of mot	ier				2
Infant nursed out					4
					14

Midwives were regularly inspected by visits at their own homes, and the necessary examinations of their outfits and registers have also been carried out. 28 routine and 24 special visits have thus been paid.

Letters have been written to midwives, drawing their attention to points in connection with the Rules of the Central Midwives Board, as under—
Incorrect designation on name plate 1 Failure to notify the birth of a still-born viable
child 1
Failure to visit patient on the tenth day after confinement 5
Failure to note the date of birth in the midwife's register 1
Failure to enter a case in the midwife's register 1
Failure to note in the register the substitution of artificial feeding 3
HOME NURSING.
Under the arrangement with the Carlisle District Nursing Association the following visits were paid by the nurses of the Association:—
No. of No. of
Cases. Visits. Pneumonia 9 138
Bronchitis 1 11 Ophthalmia 1 17
Ophthalmia 1 17
166
MATERNITY HOSPITAL.
145 patients received treatment in this institution,
8 of whom were admitted upon the request of medical
practitioners.
No maternal death occurred.
In 2 instances the blood was submitted to the Wassermann test, and in each case the result was negative.
The following are also amongst the important particulars relating to the work of the Maternity Hospital:—
Remaining in Hospital on 31st December, 1923 7
Number of cases admitted during the year 138
Total 145

Average duration of stay Number of cases delivered by Number of cases delivered by Total number of confinements Number of cases treated ante- Number of cases treated during	y mie a de nata	octor lly only	114 20 134 4	days
Number of cases in wh	ieli 1	medical	assistance	was
specially indicated:—				
Mothers—				
Before labour				22
Albuminuria			4	
Malpresentation			7	
Pelvic Contraction			3	
Varicose Veins			2	
Incarcerated Retrove	erted	Gravid		
Uterus			1	
Heart Disease			1	
Tuberculosis			2	
Hyperemesis			2	
During labour		• • •		27
Delayed labour			19	
Placenta Prævia		• • •	1	
Adherent Placenta	• • •	• • •	2 3 1	
Malpresentation		• • •	3	
Eclampsia				
Abortion		• • •	1	0.5
After labour				25
Rupture of Perineur	n		20	
Raised Temperature			3	
Brouchitis			1	
Pleurisy			1	0
For Infant		• • •		9
Malformation			3	
Feebleness			2 4	
Artificial feeding		• • •	4	
Number of Maternal Deaths				()
Number of fætal deaths				8
Number of Still-births				4
Causes—				
Malpresentation			2	
Prematurity			$\frac{2}{1}$	
Maternal Tuberculos			1	

Died before 10 days				4
Causes—				
Prematurity			2	
Ante-Partum Hæmo	rrhag	ge	1	
			1	
Conditions necessitating	the s	substitution	of artific	ial
feeding for breast feeding:	_			
Insufficient Milk	• • •		3	
Defect of Nipples		* * *	1	

ANTE-NATAL CLINIC.

The number of attendances made at the clinic for expectant mothers was 555, a slight increase on the figures for last year, which show a growing appreciation of the value of the aute-natal visits. Of these, 158 were first visits of new patients.

Among the conditions requiring medical attention or advice were the following:—Heart disease, bronchitis, anæmia, constipation, hyperemesis, dyspepsia, defective teeth, chronic nephritis, albuminuria, ædema, varicose veins, hyperthyroidism, retracted nipples, cracked nipples, mastitis, uterine prolapse, pelvic contraction, malpresentation, hæmorrhage, leucorrhæa, hydramnios, and retroverted gravid uterus.

INFANT CONSULTATIONS.

At the clinics for children up to five years of age there were 795 attendances, about the same number as in 1923, of which 202 were attendances by new cases. Treatment or advice was found to be necessary for the following conditions:—Malnutrition, injudicious feeding, prematurity, debility, marasmus, diarrhæa, dyspepsia, constipation, worms, hernia, rickets, bronchitis, whooping cough, seborrhæa, eczema, impetigo, pruritus, boils, blepharitis, conjunctivitis, strabismus, otorrhæa, adenoids, phimosis, tongue-tie, cleft palate, talipes, adenitis, hyperthyroidism, fits, congenital malformations, &c.

VOLUNTARY AGENCY.

Babies' Welcomes and Schools for Mothers.

Each of the four centres, viz., West Walls, Botchergate, Caldewgate, and Currock, was visited in turn by the Assistant Medical Officer for Maternity and

Child Welfare, one centre being visited each week; the mothers who attend are advised, as required, concerning the health of individual children, and are also addressed collectively by the Medical Officer on some matter of hygiene to which local or general events lend a momentary or perennial interest.

The following table gives a general summary of the work of the centres:—

Number of Sess Attendances of			•••		156
1st Attendance				192 .	
Subsequent A			* • •	4447	
A 1 0 1				1900	
Aged 0—1 ye Aged 1—5 ye				1308 3331	
Aged 1—0 y	ears	• • •	• • •	9991	
	Tota	al			4639
Attendances of	Mothers				
1st Attendance	ces			161	
Subsequent A				3398	
	Tota	al			3559
Classes and Ade	dresses-	_			
Mothercraft				67	
Sewing				4	
Hygiene	• • •			31	
Cooking			• • •	12	
	Tot	al			114
	, 100	~ L	•••	•••	
	HEALTH	Visito	R.		
Total number o	f homes	visited			2984
Primary visits					667
Re-visits to ch	ildren-				
0—1 year				1506	
1—2 years				512	
2—3 years				455	
3—4 years				378	
4—5 years				310	9101
					3161
Total number of	of visits	to chile	tren		3828

Visits to expectant mothers—

Primary					9
Re-visits					45
Number of	attendand	es at Ba	bies' Wel	comes	120

FREE PROVISION OF MILK.

During the year 2409 gallons of fresh milk were supplied to 159 families for the purpose, principally, of assisting the feeding of infants, and in a few instances to nursing mothers. Previous to supplying the milk, careful investigation of the circumstances was made in each instance.

STILL-BIRTHS.

The number of still-births notified during the year was 51, or 1 less than the number notified in 1923. Of this number 13 were notified by midwives, concerning which the following particulars are available:—5 were full-time still-births and 8 premature; of the 5 full-time still-births, 4 were macerated foetuses and 1 was born before the arrival of the midwife; of the 8 premature still-births, 3 were macerated foetuses and 3 complications at labour.

It will be seen from the following table that in 13 cases the cause of the still-birth was unascertainable, while in a number of instances information suggestive of a history of ante-partum hamorrhage was obtained, and in others the cause was an instrumental delivery or a malpresentation of the child.

In one instance no information was obtainable regarding the still-birth, and in one case the child was a monster, the sex not being ascertainable.

The bodies of 48 still-born children were given burial in the Carlisle Cemeteries.

The figure in respect of the percentage of illegitimacy to still-births cannot be stated owing to the particulars concerning one of the cases not being obtainable. The percentage, however, would be less than half that for 1923.

Table showing certain particulars regarding the 51 still-births.

	Total.	Legitimate.	Illegitimate.	Male.	Female.	Full Time.	8 Months.	7 Months or less.
Maternal Conditions— Albuminuria Ante-partum Hæmorrhage Strain or Accident Delayed Labour Contracted Pelvis	1 9 2 1 2	0 9 2 1 2	1 0 0 0	0 6 1 1	1 3 1 0	0 3 1 1 2	1 1 0 0 0	0 5 1 0 0
Instrumental Delivery Malpresentation Malformation of Child Prolapse of Cord Twins Marked Prematurity Post-maturity No cause ascertained No information available	8 4 2 2 3 2 1 13 1	8 3 2 2 3 2 1 13 ?	0 1 0 0 0 0 0	? 3 0 0 2 2 0 9	? 1 2 2 1 0 1 4 ?	6 3 1 2 2 0 1 10 ?	1 1 0 0 0 1 0 1 ?	1 0 1 0 1 1 0 2 ?

INFANT MORTALITY.

The total number of deaths of infants under one year was 111; the number of deaths of residents was 106, which provides a net infant mortality rate of 95.0 per 1,000 of the registered births. Correcting for variations by adopting the method suggested by the Registrar-General, viz., taking as a denominator the sum of 70 per cent, of the current year's births and 30 per cent, of the births of the previous year, the infant mortality rate for 1924 is 93.4 per 1,000 births registered, a rather higher figure than that for the previous year,

The number of deaths due to diarrhæa amongst infants up to one year was 5.4 per 1.000 registered births, as compared with 7.6 per 1.000 registered births in 1923, and with 5.5 per 1.000 registered births in 1922.

The mortality rate for infants under four weeks was a good deal lower than during 1923. Nevertheless no fewer than 13 children died before they were a day old, 19 before they were one week old, and 24 before the fourteenth day. The number of deaths caused by prematurity of birth was 19, or 17.0 deaths per 1,000 of the registered births, as compared with 28.0 per 1,000 in 1923; whilst mayasmus and allied disorders were stated

to have caused 11 deaths in 1924, as compared with 6 in 1923. A large percentage of deaths attributable to marasmus may, however, be regarded as due to prematurity.

The increase in the death-rate is chiefly due to respiratory disorders, bronchitis, and pneumonia, caused by the damp and sunless seasons; these two diseases caused 30 deaths in 1924, as compared with 14 in 1923, *i.e.*, they accounted for nearly one-third of the infantile death-rate.

In this connection it is interesting to note that practically all the deaths from gastro-enteritis occurred in the winter months, and were probably referable to cold and damp as predisposing causes, in contradistinction to the form of epidemic gastro-enteritis, which occurs in a hot and dry summer. Owing to the dampness there has been no real summer diarrhæa; I death from gastro-enteritis occurred in June, but that is much too early for the typical form of summer diarrhæa.

Meningitis and tuberculosis caused 4 deaths each in 1924, as compared with 1 each in 1923; the damp is responsible for the increase in tuberculosis.

Deaths from epidemic diseases, especially whooping cough, were more numerous in 1924 than in 1923, the fatal termination in many of these cases being due to some respiratory complication.

That the infantile deaths were not dependent upon food infection is supported by the information given in the table in which the infantile deaths are shown in reference to the mode of feeding, from which it will be seen that the proportion of breast-fed babies who died was much larger than in any year since 1914. The rather high mortality of last year was therefore unpreventable and principally occurred among children suffering from respiratory diseases; it is possible that some of these deaths might not have occurred had the condition of the home and surroundings been more favourable.

It is possible that if provision were specially made in the nature of a sick ward for such cases one of the principal objections to removal from home would disappear, but it would probably still be necessary to provide for isolation, seeing that these cases so often start in the first instance with some zymotic infection.

with deaths from stated causes, at various ages and in various seasons, of children under one year of age. INFANT MORTALITY,

	Total Deaths under One Year.	103	411104146111011111	106
1	December.	13	::-:::4:::::::::::::::::::::::::::::	13
	November.	4 :		4
	October.	201	- : : : : : : : : : : : : : : : : : : :	1
	September.	4 1		2
	August.	eo :	7 : : : : : : : : : : : : : : : : : : :	8
	July.	ය :		60
N CT TO	May.	6 :		6
1 5	May.	7		1
-	April.	14	: : : : : : : : : : : : : : : : : : :	14
	March.	16	: : : : : : : : : : : : : : : : : : :	17
	February.	17	::::::::::::::::::::::::::::::::::::::	17
	January.	∞ :		00
	9 Months and underly Months.	13	: : :0 :J-0 :- : : : : : :	13
	6 Months and under 9 Months.	21	L : : : : : : : : : : : : : : : : : : :	21
	3 Months and under 6 Months.		- : : :- :	12
١	4 Weeks & under 3 Months.	e1 12	о- : i : i : i : : :	26
1	Total under	33	::::::::::::::::::::::::::::::::::::::	34
	3-4 Weeks.	က :		_ m
	3-3 /Деека.	· :	::·:::::::::::::::::::::::::::::::::::	1
	1-2 Weeks.	: ۵۰		5
	Under 1 Week.	18	::::::::::::::::::::::::::::::::::::::	19
1		1 : :		:
	EATH.	Certified Uncertified		Totals
CAUSE OF DEATH.			Measles Measles Measles losis (all formia tis	
	Ö	All Causes.	Whooping Influenza Measles Greyman D Syphilis Tuberculc Septioaem Meningiti Bronchiti Preumon Congestio Gastritis Gastritis Convulsic Convulsic Convulsi Asphyxia Hemoph	

Rates of Mortality among Infants at various ages, and from the principal causes, per 1,000 births.

				AGES.					CAU	SES.		
	ate.			ACCES.			No	t Preven	table.	Р	reventab	le.
Year	Nett Infant Mortality Rate.	Under 4 Weeks	4 Weeks and under 3 Months	3 Months and under 6 Months	6 Months and under 9 Months	9 Months and under 12 Months	Premature Birth	Atrophy, Debil- ity & Marasmus	Congenital Malformations and Atelectasis.	Diarrhœa and Enteritis	Lronchitis and Pneumonia	Whooping
1909	123.6	47.9	26.1	20.9	14.8	13.9	21.7	17.4	7.0	20.9	13.1	4.4
1910	109.1	41.9	19.1	21.0	15.7	11.4	28.8	13.1	5.2	12.2	14.8	4.4
1911	145.0	45.0	27.0	27.0	25.2	20.8	18.0	12.6	4.5	37.9	26.1	9.0
1912	102.4	42.0	15.8	16.6	17.5	10.5	15.8	15.8	9.6	9.6	21.9	6.1
1913	127.1	49.8	17.2	27.5	19.0	13.7	28.4	12.9	6.0	19.0	18.0	3.4
1914	122.4	48.0	25.6	21.5	15.7	11.6	19.8	15.7	5.6	20.7	18.2	5.8
1915	144.3	51.2	30.2	26.8	14.3	21.8	30.2	12.6	5.9	15.9	20.1	10.1
1916	101.5	47.1	13.6	16.3	15.4	9.1	27.2	7.3	8.1	17.2	14.5	0.0
1917	106.5	39.4	16.1	23.3	15.2	12.7	20.6	7.2	10.8	24.2	10.7	1.8
1918	126.8	38.7	17.4	26.1	30.0	14.5	22.3	10.6	4.8	14.5	25.2	19.4
1919	107.9	45.9	17.8	18.8	13.1	12.3	19.7	22.5	9.4	13.1	20.6	0.0
1920	80.0	30.2	13.4	19.3	10.5	7.0	16.1	11.9	9.1	8.6	13.3	3.5
1921	105.3	38.2	17.5	23.7	16.8	9.1	11.4	17.5	9.1	2 2.1	13.7	2.3
1922	81.2	35.5	11.0	14.2	7.9	12.6	17.4	8.7	6.3	5.5	15.8	2.4
1923	82.9	39.7	11.0	7.6	14.3	10.1	29.6	5.0	6.7	7.6	11.8	0.8
1924	95.0	30.5	23.3	10.7	18.8	11.7	17.0	9.9	6.3	5.4	26.9	3.6

Infant Mortality Rates for the various Wards, 1918-1924.

Year	Stanwix & Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holme	St. Cuthbert's	Caldewgate	Newtown & Belle Vue	Carlisle
1918	108.7	141.2	135.4	101.7	94.9	93.8	125.0	193.3	156.2	97.2	126.8
1919	81.6	97.8	123.3	83.9	125.0	65.4	160.6	119.0	115.1	65.8	107.9
1920	46.5	77.5	54.3	100.0	68.6	57.4	81 6	113.2	87.0	78.4	80.0
1921	23.8	150.7	91.7	174.6	86.9	62.0	105.2	62.5	158.4	5 6 .8	105.3
1922	50.8	47.6	84.0	75.7	102.9	90.9	98.7	65.7	78.5	112.5	81.2
1923	163.2	79.6	64.0	82.6	77.5	44.9	73.0	64.1	141.0	107.6	82.9
1924	68.9	96.7	150.0	36.6	81.4	93.4	55.1	130.0	158.8	36.1	95.0

INFANT MORTALITY IN RELATION TO THE MODE OF FEEDING.

The following table shows the deaths of infants under one year in relation to the mode of feeding:—

y ea	r in relation	1 to	tne	moa	8 01	ree	ding	8	
	Mortality Rate per 1,003 so fed.	7.0 4.0 4.0	181.2	\$ # **	0.711	0.00	1,000.0	1,000.0	214.3
eaths.	Total.	46	25	7	# C		4	15	9
Number of Deaths.	Illegitimate.	0	က	-	- C	>	0	_	0
Numb	Legitimate.	46	22	6.	01	>	4	14	60
Fed.	Total.	831	138	0	6	4	4	15	28
Number so	Illegitimate.	29	13	ŗ	7 7	>	0	-	0
Num	Legitimate.	802	119	301	001	1	41	14	28
		:	:		:	:	:	:	:
		:	:		:	:	:	:	:
	NG.	:	:		:	:	:	:	:
	EEDING,		Bottle		:	:	:	:	:
MODE OF FE		:	artly l		_	:	:	pe fed	eeding
			d pue	-	naper bottle	fants-	-fed	le to b	n re f
	MO		reast	. 0	(1) Doak-shaped	ted In	(1) Spoon-fed	(2) Unable to be fed	rmatio
		Breast	Partly Breast and partly	Bottle—	(T)	Debilitated Infants—	(1)	(2)	No information re feeding
		ğ	ä	ğ		D			Z

Table showing the Death-rate per 1,000 infants under 1 year, classified according to the Method of Feeding, 1915—1924.

	A verage Mortality Rate,	103.1	33.3	270.3	30.0
10 years.	Total No. of Deaths.	1200	409	135	358
	Total No. of Children.	11988	9323	827	1093
	1924	0.96	55.4	181.2	117.6
	1923	82.9	33.8	141.7	117.1
	1922	81.2	38.4	152.0	212.5
	1921	105.3	30.6	407.7	229-2
	1920	80.0	35.1	171.7	8.602
	1919	107.0	44.2	378.4	230.3
	1918	126.8	9.65	122.2	520-4
	1917	106.5	25.3	515-1	324.3
	1916	101.5	4.43	133.3	428.6
	1915	144.3	7.49	200.0	612.0
	Mode of Feeding.	Total infant mortality rate	Mortality rate for breast-fed infants	Mortality rate for infants partly fed on breast and partly on bottle	Mortality rate for infants fed by bottle 61

INFANT MORTALITY AND RAINFALL.

Year.	Rainfall in Inches.	Number of days on which rain fell.	Infant Mortality.
1909	33.13	162	123.6
1910	29.64	197	110.0
1911	30.20	181	145.0
1912	30.01	217	102.4
1913	27.53	194	127.1
1914	28.31	201	122.4
1915	28.28	183	144.3
1916	38.97	228	101.5
1917	29.13	176	106.5
1918	33.65	190	126.8
1919	25.21	191	107.9
1920	32.11	211	80.0
1921	29.83	205	105.3
1922	28.55	209	81.2
1923	36.53	231	82.9
1924	35.11	210	95.0

ILLEGITIMACY.

The number of illegitimate births registered was 53, or 47.4 per 1,000 registered births, being 2.9 per 1,000 greater than the figure for 1923. The number of deaths amongst these children was 4, or 75.4 per 1,000 illegimate births. The deaths of legitimate children numbered 102, or 95.9 per 1,000 legitimate births. The Health Visitors paid 114 visits to boarded-out children.

PUERPERAL FEVER.

During the year 4 notifications relating to puerperal fever were received, and in 2 instances the condition was fatal. In 1 fatal case the condition followed instrumental delivery, and in the other, a non-resident of Carlisle, Casarean section had been performed. The remaining 2 cases, which recovered, were slight; the illness in one case followed on some manipulation for hæmorrhage, the other following an abortion which was associated with a severe cold or influenza. The diagnosis in this case was, however, doubtful.

OPHTHALMIA NEONATORUM.

10 cases of ophthalmia neonatorum were notified, compared with 12 in 1923, 22 in 1922, and 24 in 1921.

In 9 instances both eyes were affected, and in the remaining case only one eye was affected. 2 cases were notified by medical practitioners, 3 by midwives, and 5 by both doctor and midwife. The discharge was purulent in each instance, but in no case was there any permanent damage to the eye.

In connection with this condition the Health Visitors of the Corporation paid 49 visits to affected babies in order that, if appropriate treatment was not being carried out, arrangements could be made for treatment.

In all the cases the condition was treated at home, but in one case the family doctor sent the child during treatment to the Cumberland Infirmary for a specialist's opinion. In another case the eyes of the child were attended to by the District Nurses.

Noti- fied.		ated.	Vision un- impaired	Vision impaired	Total Blind- ness.	Deaths during treat-ment.	Remarks.
10	10	Nil.	10	Nil.	Nil.	Nil.	

INFECTIOUS DISEASES.

The Health Visitors paid 1,881 visits to cases of zymotic diseases, apart from their visits to children suffering from gastro-enteritis and ophthalmia neonatorum.

DIARRHEA.

There were 16 deaths from diarrhoa during the year, and the Health Visitors paid 77 visits in connection with cases of diarrhoa and gastro-enteritis.

The following table shows the age incidence: -

$\Lambda { m ge}.$			No	o. of deaths.
0— 1 year				-6
1— 2 years				2
2— 5 years				
5—15 years		* * *		
15—25 years				1
25—45 years				2
45—65 years	• • •			2
Over 65 years				3
				16

POLIOMYELITIS.

No notification relating to poliomyelitis was received during the year.

DEATHS AMONG CHILDREN AGED 1-5 YEARS.

44 deaths occurred among children aged 1—5 years from causes detailed hereunder:—

Infectious Diseases		12
Tubercular Diseases		8
Respiratory Diseases		10
Gastro-intestinal Diseases		2 2
Violence Other Diseases		10
Other Diseases	• • •	
		44

HYCIENE OF PLACES OF PUBLIC ENTERTAINMENT.

The visits made in this connection will be found in the Sanitary Inspector's Report, page 81.

REPORT OF THE VETERINARY INSPECTOR.

During the year 136 newly purchased cows were examined in the several byres of the City, amongst which the following conditions were found:—

Disease						 4
Disease	01	the	lungs	and	udder	 1
						5

The latter animal was tested with tuberculin, a characteristic re-action being obtained. All 5 animals were returned to the sellers.

The bovine animals exposed for sale at the Sands Cattle Market, and also at the Auction Marts, were examined, a total of 22,593 examinations being made.

The Auction Marts were visited each Monday in the year, and 13,730 pigs were examined.

236,195 sheep were also examined during the year.

A total of 2,856 examinations of milk cows were made in the several byres of the City, in order to ascertain the presence of disease likely to affect the milk supply, in the course of which the following conditions were found:—

Inflammation of the	Udder		2
Septic Poisoning			4
Gastric Derangement			1
Milk Fever			1
Pneumouia			1
Abortion		• • •	1
			10

The milk from these 10 animals was destroyed until convalescence was established.

The Corporation horses, 20 in number (including the one employed at the Cemetery), have been under close observation, and have been free from serious illness during the year.

Animals (Landing from Ireland) Order, 1922.

2,210 examinations were made of animals detained under the provisions of the above Order.

15 rams from Norfolk, which came under the Ministry of Agriculture licence for 14 days' detention, were examined.

On 1st January notice was received that a cow in one of the City dairies was suspected to be suffering from Foot and Mouth Disease, and on 10th January that an Irish heifer grazing amongst 24 other cattle was also suspected to be suffering from this disease. Both animals were, however, found to be free from Foot and Mouth Disease.

On the 4th January Foot and Mouth Disease was found to exist at the Beeches Farm, Botcherby. 2 animals were found to be affected. The stock on the farm consisted of 66 dairy cows, 4 calves, and 30 pigs. The whole of this stock was slaughtered within 24 hours of the discovery of the outbreak.

On the 5th May I accompanied the Medical Officer of Health to a farm outside the City and examined a herd of 28 dairy cattle. Three of the animals were found to be affected as follows:—

One with symptoms of disease of the lungs;
One suffering from a chronic disease of the udder;
and

A third in a debilitated condition.

Samples of milk from each of these cows were submitted for bacteriological and biological examination, and each gave evidence of disease of the udder and also contained an excessive amount of extraneous dirt.

The byres and the cows therein were in a very dirty and neglected condition; the milkers themselves were seen to be objectionably dirty, and were carrying out the milking in a disgustingly dirty manner.

I subsequently visited the farm with the Medical Officer of Health and found that two of the cows which exhibited the worst condition of illness had been sold. I made an examination of the other cow and found her condition more satisfactory than on the previous visit. A considerable improvement had also taken place in the cleanliness of the byres and the cows, and also in the persons of the milkers.

On a later visit to the farm I found the improved conditions were being maintained.

On 7th May, at the request of the Chief Constable, I made an examination on the carcase of a stirk that was found dead within the City Boundary. I found the same to be free from contagious disease.

On 30th August, when inspecting cattle in one of the auction marts, I found a black polled cow in an unhealthy condition. As the animal was a source of danger to in-calf cows. I ordered it to be immediately removed from the byre and directed the attention of the Auction Mart Authorities to the marter. A thorough cleasing and disinfection of the stall in which the animal had been standing was made.

On 30th August a black-faced lamb in a lot of 129 was found to be suffering from a skin disease. On examination I found the lamb had, some time previously, been infected with sheep scab, but was now cured. I took scrapings and wool for microscopical examination, which gave negative results for live acari. As the lamb was of very little value the owner had it slaughtered, and the remaining 128 sheep were removed into the country. As a precautionary measure I informed the County Veterinary Inspector as to where the sheep had been moved.

On 20th September it was reported that a Suffolk tup lamb was suffering from a skin disease. I took scrapings of the skin and wool for microscopical examination, which gave negative results for acari.

HOUSING.

Up to the end of the year the total number of houses for the erection of which the Corporation had received the sanction of the Ministry of Health was 914, 160 relating to the parlour type and 754 to the non-parlour type of house, to be provided as follows:—Denton Street, 24; Boustead's Grassing, 32; Stanwix, 74; Longsowerby, 98; Blackwell Road Estate, 500; and Wigton Road Estate, 186.

The total number of houses erected by the end of the past year was 378, as follows:—Denton Street, 24; Boustead's Grassing, 32; Stanwix, 74; Longsowerby, 98; Blackwell Road Estate, 108; and Wigton Road Estate, 42.

The houses in course of erection at the end of the year comprised 88 on the Wigton Road Estate, and 112 on the Blackwell Road Estate, all of which relate to the non-parlour type.

During the year 77 houses, 60 relating to the parlour type and 17 to the non-parlour type, were built by private enterprise. Of these, 40 of the parlour type and 17 of the non-parlour type were eligible for the subsidy under the provisions of the Housing, &c., Act, 1923.

At the end of the year 78 houses, 61 of the parlour type and 17 of the non-parlour type, which are being built by private enterprise, were in course of crection.

In addition to the particulars given in the following tables, other information will be found in the Inspector's Report, pages 68 and 69.

Table showing number of dwelling-houses erected in the City during the past ten years:—

	\mathcal{Y}	To. of House	es	N	o. of Houses
Year.		erected.	Year.		erected.
1915		9	1920		27
1916		1	1921		96
1917		2	1922		123
1918		0	1923		96
1919		2	1924		139

Table relating to the present position of certain houses in which Closing or Demolition Orders have been made.

Number and Situation.	Date represented to Committee.	Date of Closing Order served under Housing, Town Plan- ning, &c., Act. 1909.	1 -	Remarks.
1, 2, 3. 4. 5. 6, 7, & 9 Barley Stack Lane	21st Nov., 1913	9th Dec., 1913	10th June, 1914	Part of the property de- molished, the other part still standing
12, 14, 16, 18, 22, 26, & 28 Chapel Street	19th June, 1914	15th July, 1914	14th Sept., 1915	In statu quo
5 houses in Donald's Court, Willow Holme	19th June, 1914	15th July, 1914	14th Sept., 1915	Do.
3 houses, Willow Holme	19th June, 1914	15th July, 1914	14th Sept., 1915	Do.
Fay's Lodging House, Drovers Lane, Rickergate	2nd Dec., 1921	13th Dec., 1921	12th Sept., 1922	Property demolished.
27, 27a, 27b, 29, 30a, 30b, 30c, & 31 South John Street 8 houses in Dunn's Court, South John St.	2nd May, 1923	8th May, 1923		Do.
40 & 42 Crown Street 8 houses in Irving's Court No. 2, Crown St.	2nd May, 1923	8th May, 1923		Property made habitable by conversion into 4 self-contained flats. Two houses demolished.

Number and Situation.	Date represented to Committee.	Date of Closing Order served under Housing, Town Plan- ning. &c., Act, 1909	Date of Demolition Order served under Hous- ing. Town, Planning, &c., Act, 1909	Remarks.
2 Dona Court, Crown St.	1st June, 1923	12th June, 1923	•••	House demolished.
3 houses in Irving's Court No. 1, Crown St.	1st June, 1923	12th June, 1923		Property in course of being made habitable by conversion.
30 Robert Street 4 and 5 Young's Crt., Robert St.	1st June 1923	12th June, 1923	13th May, 1924	Property in course of being made habit-
37 South John St. 3 houses in Rayson's Ct. No. 1, South John St.	1st June 1923	12th June, 1923		able. Property converted into business
39 & 49 South John Street 1 house in Barker's Court, South John St. 3 houses in Rayson's Court No. 2, South John St.	1st June 1923	12th June, 1923		Property made habitable.
93, 95, 97, 101, 103, and 105 Union St.	30th Nov., 1923	11th Dec., 1923	28th Oct., 1924	
99 & 99a Union St.	30th Nov., 1923	11th Dec., 1923	28th Oct., 1924	Operation of Demolition Orders post- poned for six months.

Number of New Houses erected during the year:—	
(a) Total.(b) With State assistance under the Housing Acts,	139
1919, 1923 or 1924:—	
(i) By the Local Authority.	62
(ii) By other bodics or persons.	57
1.—Unfit Dwelling Houses.	
Inspection.—(1) Total number of dwelling honses in-	
spected for housing defects (under Public	
Health or Housing Acts)	125
(2) Number of dwelling houses which were	
inspected and recorded under the Hous-	
ing (Inspection of District) Regulations,	76
(3) Number of dwelling houses found to be	10
in a state so dangerous or injurious to	
health as to be unfit for human habitation	3
(4) Number of dwelling honses (exclusive	
of those referred to under the preceding	
sub-heading) found not to be in all re-	
spects reasonably fit for human habita-	~ 0
tion ·	73
2.—Remedy of Defects without Service of formal Notices.	
Number of defective dwelling houses rendered fit in consequence of informal action by the Local	
Anthonity on their officers	10
3,—Action under Statutory Powers.	10
(a) Proceedings under Section 28 of the Housing,	
Town Planning, &c., Act, 1919—	
(1) Number of dwelling houses in respect	
of which notices were served requiring	
repairs	24
(2) Number of dwelling houses which were	
rendered fit after service of formal	
(a) By Owners	99
(b) By Local Authority in default	22
of Owners	Nil
(3) Number of dwelling houses in respect	2111
of which Closing Orders became opera-	
tive in pursuance of declarations by	
Owners of intention to close	Nil

(b) Proceedings under Public Health Acts—	
(1) Number of dwelling houses in respect	
of which notices were served requiring	
defects to be remedied	49
(2) Number of dwelling houses in which	43
defects were remedied after service of	
formal notices	
(-) P- O	4.0
	40
(b) By Local Authority in default	2711
of Owners	Nil
(c) Proceedings under Sections 17 and 18 of the	
Housing, Town Planning, &c., Act, 1909-	
(1) Number of representations made with a	
view to the making of Closing Orders	Nil
(2) Number of dwelling houses in respect	
of which Closing Orders were made	Nil
(3) Number of dwelling houses in respect of	
which Closing Orders were determined,	
the dwelling houses having been	
rendered fit	6
(4) Number of dwelling houses in respect	
of which Demolition Orders were	
made	12
(5) Number of dwelling houses demolished	
in pursuance of Demolition Orders	Nil
Pulbuado of Domontolia Ordolo	7,11

Chief Inspector's Annual Report.

To the Chairman and Members of the Health Committee.

Ladies and Gentlemen,

I have the honour to submit my Annual Report upon the work of the Sanitary Inspectors during the year 1924.

HOUSING.

The improvement of the Crown Street area has been continued during the year, and the whole of the block bounded by Robert Street, South John Street, Crown Street, and Currock Street has now been taken in hand.

Further notices were served during the year under Section 28 of the 1919 Act in respect of property at the Currock Street end of the block. Part of this work was done, but as one owner appealed to the Ministry of Health against the notices the matter is in abeyance awaiting the Minister's report.

As a result of the effort to reduce the density of this district a further 19 tenements were converted into 6 self-contained houses.

The number of dwelling-houses inspected for housing defects was 125, and in 76 cases particulars were specially recorded under the Inspection of District Regulations. Of these, 3 were found to be unfit for habitation, and the remaining 73 not in all respects reasonably fit.

10 houses were improved by owners without the necessity of notices from this Department.

The displacing and re-housing of the tenants in the Queen Street and Rigg Street area is postponed until the completion of the new houses allotted under the improvement scheme.

Closing orders and notices to quit served in respect of property at Union Street are also in abeyance owing to the impossibility of erecting houses to accommodate the tenants. A tabulated list of the works executed in accordance with notices under the Housing Acts is at the end of the report, along with a list of housing works done by notices under the Public Health Acts.

It is perhaps early to form any opinion regarding those tenants who removed from condemned houses in Crown Street and South John Street to new houses on the Corporation estates, but in a few instances they do not appear to have adapted themselves to the new surroundings, although the undesirables are by no means confined to tenants removed from this district.

NUISANCES AND DRAINAGE.

The number of complaints reported at the office was 146, and your Inspectors discovered in routine inspections a further 635 matters requiring attention. Notices were served to abate nuisances in 365 instances, 11 matters being outstanding at the end of the year.

33 new drains were laid under the supervision of the Department. 1,063 inspections of drains were made by the Inspectors, and in 91 cases tests, either chemical or water, were applied.

CONVERSION TO WATER CARRIAGE SYSTEM.

At Stanwix 1 insanitary midden was converted into 2 water-closets.

VAN DWELLINGS.

Periodical inspections have been made as usual to the Sands, whereon the fairs are held. The vans were inspected twice during the year and found to be satisfactory.

The sanitation of this ground is now much improved by alteration, and the conduct of the van dwellers has contributed to a satisfactory state of affairs. There was no infectious disease reported amongst van dwellers.

In 2 instances only were vans on private premises the cause of temporary trouble.

COMMON LODGING-HOUSES.

The only registered common lodging-house is the one known as Lowther House, Lowther Street, owned and controlled by this department. It was conducted in a satisfactory manner.

The late lodging-house, known as Fay's, in Drovers Lane, was completely demolished during the year.

STABLE PREMISES.

There are approximately 120 stable premises in the City, to which 198 inspections were made. The cold season was not productive of many flies from this or any other source.

FACTORIES AND WORKSHOPS,

The number of workshops on the register was 291. Of these, 32 are known as domestic workshops. Included also in this are 75 bakehouses, 3 of which are underground. 1 bakehouse was improved during the year, and at 1 tripe dressing place certain structural improvements were carried out.

On the whole a good standard of cleanliness and sanitation in the workshops is maintained, and we met with no overcrowding. 502 visits were paid to factories and workshops. The number of factories is 90.

His Majesty's Inspector of Factories reported sanitary defects at 7 factories and workshops, these being remediable under the Public Health Acts. Successful action was taken in every instance and the Inspector notified accordingly. The matters complained of were:—

Failure to cleanse or limewash premises	 4
Absence of intervening ventilated spaces	 1
Absence of flue to gas stove	 1
Defective stove pipe	 1

SMOKE NUISANCES.

Carlisle is particularly fortunate in the absence of smoke nuisances from factories, electrification contributing largely to this state of affairs. Trouble, however, is being experienced with locomotives on the railways, and informal action was taken respecting a nuisance from engine sheds.

INSPECTION OF MEAT AND OTHER FOODS,

The amount of meat condemned during the year as unfit for human consumption was 16 tons 2 cwts. 0 qrs. 26 lbs. Details of this and the other miscellaneous foodstuffs surrendered as unfit are reported in the appendix. It was not found necessary to take any legal proceedings under the Public Health Acts in respect of unsound foodstuffs.

SLAUGHTER-HOUSES.

The public slaughter-houses, owned and under the control of this department, have been structurally repaired during the year, and altogether well maintained. A table showing the total number and nature of the animals killed is given on page 76.

There are 3 licensed slaughter-houses in the City, 1 each at the L. M. & S. and L. & N. E. Railways, and 1 at Cavaghan & Gray's Bacon Factory, Harraby. The railway slaughter-houses are used exclusively for the slaughter of sheep, mainly for the London markets; whilst Cavaghan & Gray's premises are used solely for pigs, for bacon curing at their premises.

The L. & N. E. Railway Slaughter-house, improved last year, was further improved during the year, in that the tracks and dock within a good distance of the slaughter-house were laid in concrete, thus facilitating the proper cleansing, not only of the slaughter-house, but the immediate vicinity.

540 inspections were made to slaughter-houses.

DAIRIES, COWSHEDS, AND MILKSHOPS.

There are now 21 cow-keepers on the register. Numerous visits to premises were made during the year.

The number of milk retailers is 54, 26 of whom reside outside the city. There are in addition 15 milkshops registered. 71 inspections were made to milk retailers' premises.

FRIED FISH AND POTATO SHOPS.

We have 34 of these premises on the register, and frequent inspections were paid during the year. No serious nuisance existed at any of the premises, and the trade is, generally speaking, carried on satisfactorily.

ICE CREAM SHOPS.

It is difficult to maintain a complete register of dealers in this commodity, as the business is carried on at restaurants and other premises secondary to other trades. We have 18 such places on our register.

On 2 occasions premises were found to be unsatisfactory. In 1 case the premises were condemned as unfit for the making of ice cream, and the occupier now buys from a wholesaler. In the other, improvements were effected designed to prevent contamination.

FOOD AND DRUGS ACTS.

During the year I purchased 139 samples under these Acts, and full particulars of the nature of the samples, together with the results of the analyses will be found in the appendix. It was found necessary to take legal proceedings in respect of certain samples of new milk certified by the Analyst to be deficient in non-fatty solids. The vendor was convicted and fined £2 2s. and costs.

OFFENSIVE TRADES.

The number and description of these trades remain the same, *i.e.*, 1 gut scraper, 2 tripe dressers, 1 tanner, and 1 fellmonger.

At 1 of these places the premises were improved structurally.

REFUSE REMOVAL.

The daily collection is still in operation in the centre of the City, whilst the remainder is subject to a twice or thrice-weekly collection, according to the requirements of the district. The whole of the refuse is disposed of by tipping at several tips, which are under constant supervision.

In November the Committee purchased an S.D. Freighter as an experiment. This petrol vehicle is well designed for the purpose, having a very low loading line, and during the short time it has been in use has proved to be satisfactory. Up to the present the vehicle has been doing the work previously done by two horses.

The garbage from the public slaughter-houses was also disposed of by tipping, and amounted to 534 loads.

During the year 18,612 loads of refuse were disposed of by tipping (trade refuse carted privately excluded).

URINALS.

The cleansing of the public urinals is under the charge of my department, and is done daily. 1 new urinal has been erected at Stanwix. 3 of the existing urinals will shortly be demolished as a result of public improvements, and new sites will have to be found.

DEPOT.

The stud of horses at the Depot, Boustead's Grassing, numbers 19. Part of the stud is engaged on house refuse removal and part on scavenging, &c. During 1924, 2 horses were bought and 1 sold.

The new petrol vehicle engaged upon house refuse removal has been provided with a garage at the Depot.

SHOPS ACTS.

891 inspections were made with the object of enforcing these Acts. In no case were legal proceedings taken.

INFECTIOUS DISEASE AND DISINFECTION.

Your Inspectors investigated 340 cases of infectious disease during the year, and 227 cases were removed to Hospital. The number and description of articles of bed clothing, &c., disinfected are in the appendix.

RAT REPRESSION.

Numerous visits were made upon complaints of the existence of rats on premises. Where the drains were suspected these were examined, and, if necessary, tested, and other advice given.

1,032 dead rats were received at the Depôt. The Corporation pay 2d. for every dead rat caught in the City.

DISEASED AND UNSOUND FOOD.

The following table shows the amount of food seized or surrendered as being unfit for human consumption:—

Natu	ire of Food	Cond	lemned.	1	Quant	ity.	
				 Tons.	Cwts.	Qrs.	Lbs.
Beef			• • •	 14	7	4	0
Mutton					16	3	18
Pork					12	0	6.
Veal					5	1	2
			Total	 16	2	0	26
Rabbits	• • •				16 co	uple	 s
Tinned Fruit	s, etc.			 1		•	
Tinned Meat	Fish, etc.						
Tinned Milk	and Cream			 }	77 tin	s	
Salmon							
Tomatoes)			
Cauliflowers					2 doze	en	

SALE OF FOOD AND DRUGS ACTS.

Table showing articles purchased during the year, with results of analyses and remarks as to action taken thereon.

Article.	No. of Samples.	No. found to be Genuine.	Number Adulter- ated.	Extent and Form of Adulteration.	Remarks.
Milk	44	41	3	 a. Non-fatty solids 0.28 % below limit b. Non-fatty solids 1.17 % below limit c. Non-fatty solids 0.69 % below limit 	Vendor cautioned. Samples b and c were purchased from same source. Vendor was prosecuted & fined £2 2s. and costs.
Butter	29	29			
Cheese	7	7			
Cream	4	4		•••	
Coffee	11	11			
Olive Oil	4	4	• • •		
Cordials	6	6		•••	I
Pepper	1	1			
Custard Powder	5	5			
Baking Powder	11	11			
Lard	13	13			
Camphor- ated Oil	2	2			
Prescrip- tions	2	2			
No. of Samples	139		-		
No. Genuine		136			
No. Adulterated			3		

The following Tables give the number of animals killed during the years stated:— PUBLIC ABATTOIR.

Year. Beasts. Sheep and Lambs. Calves. Pigs. Total. 1917 4,166 15,609 248 3,334 23,357 1918 3,257 53,357 235 1,894 58,743 1919 3,054 57,885 815 2,451 64,205 1920 2,930 35,862 828 2,462 42,082 1921 3,135 15,566 545 3,625 22,871 1922 3,512 16,294 518 4,711 25,035 1923 4,028 13,249 768 4,644 22,689 1924 4,106 14,385 436 5,896 24,823 L.M. & S. RAILWAY SLAUGHTER-HOUSE. 1921 31,301 39,427 39,427 L. & N.E. RAILWAY SLAUGHTER-HOUSE. 40,790 40,790 1923 26,121 26,121 1924 43,366 55,926 55,926 1923 39,897 39,897						
1918	Year.	Beasts.		Calves.	Pigs.	Total.
1918	1917	4.166	15 609	248	3.334	23.357
1919		,				
1920		*				,
1921			,			
1922						
1923						
1924						
L.M. & S. RAILWAY SLAUGHTER-HOUSE. 1921	A	'				
1922	L.M. 8					
1922	1921		31,301		1	31,301
1923	1922					
1924 39,427 39,427	1923					
1921	1924		39,427			
1922 55,926 55,926 39,897 39,897 39,897 64,811 63,812 63,812 63,812 64,812 64,812 64,812 64,812 64,811 64,811 64,811 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 64,812 <td>L. & N</td> <td>I.E. RAIL</td> <td>WAY SL</td> <td>AUGHTI</td> <td>R-HOL</td> <td>ISE.</td>	L. & N	I.E. RAIL	WAY SL	AUGHTI	R-HOL	ISE.
1922 55,926 39,897 39,897 39,897 64,811 64,811 64,811 64,811 64,811 64,811 64,811	1921		43,366			43,366
1923 39,897 39,897 64,811 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips 18,612 , Loads of Slaughter-house Garbage 534 DISINFECTION. Number of Cases of Infectious Diseases Investigated 340 , Cases of Infectious Disease removed to Hospital 227 , Mattresses and Beds Disinfected 165 , Bolsters and Covers 120 , Pillows and Covers 451 , Blankets 470 , Quilts 319 , Carpets and Rugs 12 , Sheets 65 , Coats 16 , Miscellaneous Articles 424 Houses Disinfected 245	1922					
REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips						
Number of Loads of House Refuse removed to Tips 18,612 DISINFECTION. Number of Cases of Infectious Diseases Investigated 340 Number of Cases of Infectious Disease removed to Hospital 227 Mattresses and Beds Disinfected 165 Pillows and Covers 120 Pillows and Covers 451 Mattresses and Beds Disinfected 165 Pillows and Covers 120 Pillows and Covers 451 470 10 Pillows and Rugs 12 Carpets and Rugs 12 Nheets 65 Coats 16 Miscellaneous Articles 424 Houses Disinfected	1924					
DISINFECTION. Number of Cases of Infectious Diseases Investigated 340 ,, Cases of Infectious Disease removed to Hospital 227 ,, Mattresses and Beds Disinfected 165 ,, Bolsters and Covers 120 ,, Pillows and Covers 451 ,, Pillows and Rugs 470 ,, Quilts 319 ,, Carpets and Rugs 12 ,, Sheets 65 ,, Coats 16 , Miscellaneous Articles 424 Houses Disinfected 245		Loads of Tips	House Ref	duse reme		
Number of Cases of Infectious Diseases Investigated 340 ,, Cases of Infectious Disease removed to Hospital 227 ,, Mattresses and Beds Disinfected 165 ,, Bolsters and Covers 120 ,, Pillows and Covers 451 ,, Blankets 470 ,, Quilts 319 ,, Carpets and Rugs 12 ,, Sheets 65 ,, Coats 16 , Miscellaneous Articles 424 Houses Disinfected 245	, ,		~		arbage	561
gated <td< td=""><td>Number of</td><td></td><td></td><td></td><td>nvesti-</td><td></td></td<>	Number of				nvesti-	
,, Cases of Infectious Disease removed to Hospital 227 ,, Mattresses and Beds Disinfected 165 ,, Bolsters and Covers 120 ,, Pillows and Covers 451 ,, Blankets 319 ,, Quilts 319 ,, Carpets and Rugs 12 ,, Sheets 65 ,, Coats 16 , Miscellaneous Articles 424 Houses Disinfected 245	rumber or			1500000	11 7 6 15 61	340
to Hospital 227 ,, Mattresses and Beds Disinfected 165 ,, Bolsters and Covers ,, Pillows and Covers ,, Blankets ,, Quilts ,, Carpets and Rugs ,, Charles ,, Coats ,, Miscellaneous Articles , Houses Disinfected 245		L.7		Disease T	emoved	010
,, Mattresses and Beds Disinfected 165 ,, Bolsters and Covers 120 ,, Pillows and Covers 451 ,, Blankets 470 ,, Quilts 319 ,, Carpets and Rugs 12 ,, Sheets 65 ,, Coats 16 , Miscellaneous Articles 424 Houses Disinfected 245	,,			Mottoe 1	cm(//ct	227
7, Bolsters and Covers 120 7, Pillows and Covers 451 7, Blankets 7, Quilts 7, Carpets and Rugs 8, Sheets 7, Coats 8, Miscellaneous Articles 16 16 245				Disinfa	cted	
7, Pillows and Covers 451 7, Blankets 7, Quilts 7, Carpets and Rugs 7, Sheets 7, Coats 8, Miscellaneous Articles 10 <	, ,					
319 319 319 3	"				• • •	
,, Quilts	,,			* * *	* * *	
7, Carpets and Rugs 12 7, Sheets 65 7, Coats 16 7, Miscellaneous Articles 424 Houses Disinfected 245		Diankets			• • •	
3, Sheets	, ,	0:14				910
,, Coats		-				
,, Miscellaneous Articles 424 Houses Disinfected 245	,,	Carpets a				12
Houses Disinfected 245	"	Carpets a Sheets			•••	12 65
Houses Disinfected 245	;; ;;	Carpets a Sheets Coats	nd Rugs		•••	12 65 16
	;; ;;	Carpets a Sheets Coats Miscellane	nd Rugs eous Articl			12 65 16 424
,, Schools Disinfected 1	;; ;;	Carpets a Sheets Coats Miscelland Houses D	nd Rugs eous Articl disinfected	 es		12 65 16 424 245

FACTORIES, WORKSHOPS, WORKPLACES, AND HOMEWORK.

1.—Inspection of Factories, Workshops, & Workplaces.

Including Inspections made by Sanitary Inspectors.

	Number of			
Premises.	Inspections.	Written Notices.	Prosecutions.	
FACTORIES	91	5	Nil	
WORKSHOPS (Including Workshop Laundries) WORKPLACES (Other than Outworkers' premises included in Part 3 of this Report)		36	Nil	
TOTAL	502	41	N	

3.-Home Work.

	OUTWORKERS' LISTS, SECTION 107.						
		Lists	received f	rom Emp	loyers.		
NATURE OF WORK.	Sending	twice in t	he year.	Sending	once in t	he year.	
		Outwo	orkers.		Outwo	orkers.	
	Lists.	Con- tractors.	Work- men.	Lists.	Con- tractors.	Work- men.	
Wearing apparel— Making, &c Cleaning and	2	• • •	•••	1			
Washing	• • •	•••		•••			
Total	2	***		1		• • •	

2.—Defects found in Factories, Workshops, and Workplaces.

	Nt	umber of De	efects.	Number
Particulars.	Found. Remedied.		Referred to H.M. Inspector.	of Day
Nuisances under the Public Health Acts:—				
Want of cleanliness	25	25		
Want of ventilation	3	3		• •
Overcrowding				• • •
Want of drainage of floors		* * *		• • •
Other nuisances	7	7	1	
Sanitary accommodation :— [Insufficient		•••		• • •
Unsuitable or defective	1	1	*	• • •
Not separate for sexes	• • •	* * *	•••	• • •
Offences under the Factory and Workshop Acts:— Illegal occupation of underground bakehouse (s. 101)		••		• •
Breach of special sanitary requirements for bakehouses (ss. 97 to 100)	2	2		* * *
Other offences (Excluding offences relating to outwork, which are included in Part 3 of this report)	3	3		
Total	41	41	1	Nil

4.—Registered Workshops.

	ii iiogiotorea ironione	31
Workshops on the	Register (s. 131) at the end of the year	Number.
Important classes of workshops, such as workshop bakehouses, may be enumerated here.	Workshops Domestic Workshops Bakehouses	184 32 75
TOTAL	number of workshops on Register	291
	5.—Other Matters.	
	Class.	Number.
Failure to affix shop Acts (s. Action taken in	o H.M. Inspector of Factories:— Abstract of the Factory and Work- 133, 1901) matters referred by H.M. Inspector e under the Public Health Acts, but	

Class.	Number.
Matters notified to H.M. Inspector of Factories:— Failure to affix Abstract of the Factory and Workshop Acts (s. 133, 1901)	••
Notified by H.M. Inspector Reports (of action taken) sent to H.M.	7
Inspector	7 ,
Other	•••
In use at the end of the year	3

6.—Classified List of Workshops.

Millinery 23 Tinsmiths 2 Tailoring 32 Hand-weavers 2 Sugar Boiling 4 Fishing Tackle 2 Cycle Repairing 9 Stocking Knitting 1 Dressmaking 26 Scale Repairers 2 Bakehouses 75 Picture Framing 2 Boot Repairing 35 Photography 4 Saddlery 6 Tripe Dressing 2 Meat Preparation 20 Chocolate Making 1 Watch Makers, &c. 14 Marine Dealers 5 Upholstering 3 Gut Scraper 1 Cloggers 11 Fellmonger 1 Coopers 3 Tanner 1 Basket Making 2 Rudd Maker 1 Umbrella Repairing 1 Total 291	Business.	No.	Business.	No.
10001 201	Tailoring Sugar Boiling Cycle Repairing Dressmaking Bakehouses Boot Repairing Saddlery Meat Preparation Watch Makers, &c. Upholstering Cloggers Coopers Basket Making	32 4 9 26 75 35 6 20 14 3	Hand-weavers Fishing Tackle Stocking Knitting Scale Repairers Picture Framing Photography Tripe Dressing Chocolate Making Marine Dealers Gut Scraper Fellmonger Tanner	2 1 2 2 4 2 1

TABULATED LIST OF WORKS EXECUTED DURING 1924 AS A RESULT OF NOTICES SERVED UNDER THE HOUSING ACTS.

Particulars of Work.	Under Sec. 2S, Housing, &c., Act, 1919.	As a result of Closing Orders,
	No. of	Houses.
Damp Walls rendered in Cement		5
Walls Plastered or Re-plastered	15	5
	14	5
Ceilings ,, ,, ,, Flagged or Boarded Floors Re-laid or Repaired	12	5
Windows provided, or Overhauled and made		
to Open	16	5
Roofs made Watertight	9	5.
Eaves and Down Spouting made Watertight	11	5
External Walls Pointed in Cement	9	5
Door Jambs, Window Sills, Heads, and Plinths		
Faced Up in Cement	12	5
Doors and Internal Woodwork Repaired	11	6
Handrails to Stairs provided	1	_
Skirtings (wood or cement) Made or Repaired	11	5
Cooking Ranges Re-set or Repaired	12	5
New ,, provided		6
Ventilated Food Stores provided	6	4
Slop-sinks provided, with Trapped Waste-pipes,		
complete	6	5
Water Supply laid on to above	3	3
Drains, New or Repaired	4	5
	Nut	nber
Yards Paved or Re-paved	6	3
Common Passages or Staircases Re-plastered		
and Repaired	6	4
Common Passages Re-paved	6	1
New Water-Closets provided	9	3
New Wash-houses provided	2	5
Wash-houses Repaired	1	1
Decorations (Paint and Distemper, &c.)	4	5
Back to Back Tenements converted to Through		
Houses	2	17
Through Houses resulting	1	5

SUMMARY OF SANITARY WORK PERFORMED IN CONNECTION WITH INSPECTION OF DISTRICT.

Nature of Inspections.	*		Number of visits paid.
HOUSES-		- -	
Houses inspected in accordance with	the Housi	ng	
(Inspection of District) Regula	tions, 191	0	2299
Houses inspected under the Pul	olic Hea	lth	
Act, 1875			3613
TT f			91
Tr' 'L T'C L' D'	• •		987
Drains Inspected	• •		1063
m 7 1			91
Common Lodging-houses inspected			6
Inspections re Nuisances from Fowls			16
Common Yards, Courts, & Alleys in			7272
Temporary or movable dwellings ins			129
Public Halls, Schools, etc			9
Dirty Houses			19
Nuisances investigated			781
TRADE PREMISES—	• • •		, 01
Palrahayaas			214
Laundries			2
Cowsheds	• • •		87
Milkshops			71
Ice-Cream Shops			44
Fried Fish Shops	• • •	• • • •	143
Slaughter-houses	• • •	•••	540
Manhata		• • •	185
Fustanies	• • •	• • •	91
Woulsalsons and Washington		• • •	411
Chimneys observed (smoke misance		• • •	15
		nlzo	2+9
Visits after serving notices to supe	NO MO	i Ko	243
in progress	• • •	• • • •	145
Refuse Tips Stables	• • •	• • •	198
	• •	• • •	-891
Shops Act Inspections		٠	8
Water samples taken for analysis Visits re Rats and Mice Destruction	Order	* *	27
	Order	• • •	1627
Miscellaneous inspections		• • •	89
Urinals Inspected		• • • •	39
Notices served to abate Nuisances			365
,, complied with			354
in a series of the series of t			

REMEDIAL WORKS DONE BY NOTICES UNDER THE PUBLIC HEALTH ACTS.

Walls, Damp and Defective, Remedied			20
Roofs, Guttering, &c., Repaired			66
Yards Paved and Repaired	• • •		5
Abatement of Nuisances caused by Ani	imals :	and	1.44
Birds	• • •	• • •	16
Water-closets Repaired	• • •	0 0 0	33
Flushing Apparatus Repaired			12
Drains Unstopped			95
Drains Reconstructed and Repaired			40
Drains Tested			91
Accumulations of Manure &c., Removed			12
Workshops Cleansed or Limewashed			10
Bakehouses Cleansed or Limewashed			20
Sinks Provided			1
Sink Waste Pipes Repaired		• • •	1
Mill Race Cleansed	• • •		2
Windows Made to Open			9
Washhouses Repaired			1.0
Firegrates and Ovens Repaired	• • •		10
Chimney Stacks Repaired	• • •	• • •	6
Floors Repaired	• • •		4

I have the honour to be,

Your obedient Servant,

C. W. HILL, Chief Inspector.



